



# NTP Historical Controls Report

By Route And Vehicle

RATS

October 2007

# REPORT DESCRIPTION

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This report shows the tumor rates of control group animals from selected studies. The studies used are shown on the Study Summary page.

This report is broken up into sections based on the route and vehicle used to deliver the chemical. The Table of Contents on Page 3 shows the different Route/Vehicle combinations. To see the data from all routes and vehicles combined into one set, you must run the "All Routes" report.

The individual tumor rates shown on the data pages of the report relate to the Study Summary page as follows: the tumor rates are shown in the same order as the Study Summary page, except that they are grouped horizontally in sets of three, with the males in the first set of three and the females in the second set. For example if the study summary showed the studies like this:

**Male**

M1  
M2  
M3  
M4  
M5

**Female**

F1  
F2  
F3  
F4  
F5

the data would be shown as:

Male			Female		
M1	M2	M3	F1	F2	F3
M4	M5		F4	F5	

Directly beneath the individual tumor rates on the data pages are the overall totals for that tumor/site combination. This includes the total tumors/animals, the overall mean (in parentheses), the mean of the study means, and the standard deviation of the study means.

Studies with no control animals of a particular gender are listed on the summary page with the Number of Animals shown as zero and the Start Date and Length of Study shown as "N/A". On the data pages there are blank spaces where tumor rates for these studies would normally be found, so that the male and female rates for the remaining studies can be easily compared.

# Table of Contents

Route	Vehicle	Page Number
GAVAGE	CORN OIL	4
GAVAGE	METHYLCELLULOSE	44
GAVAGE	WATER	74
INHALATION	AIR	114
ORAL	FEED	162
ORAL	WATER	210
SKIN	ETHANOL	258

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

**Strain:** F344

**Length of Study:** CHRONIC

**Toxicology Data Management System**

Tumor Incidence for Selected Control Animal Groups

**Route:** GAVAGE

**Vehicle:** CORN OIL

**Page: 4**

**Report Date:**10/04/2007

**Study Summary**

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Columbus Laboratory	058810503	04/22/02	729	50 (3)	35(702)	521.9	Isoeugenol
Battelle Columbus Laboratory	059902303	03/25/02	729	50 (3)	29(683)	501.9	beta-Myrcene
Female							
Battelle Columbus Laboratory	058810503	04/23/02	730	50 (5)	33(699)	339.3	Isoeugenol
Battelle Columbus Laboratory	059902303	03/26/02	730	50 (5)	31(668)	323.8	beta-Myrcene

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
#All Organs: Benign Tumors												
Overall Incidence	Total	49/50 98/100	(98%) (98%)	49/50 Mean	(98%) 98%	SD 0%	Total	41/50 81/100	(82%) (81%)	40/50 Mean	(80%) 81%	SD 1.41%
.....												
#All Organs: Malignant Tumors												
Overall Incidence	Total	29/50 52/100	(58%) (52%)	23/50 Mean	(46%) 52%	SD 8.49%	Total	18/50 29/100	(36%) (29%)	11/50 Mean	(22%) 29%	SD 9.9%
.....												
#All Organs: Malignant and Benign Tumors												
Overall Incidence	Total	50/50 100/100	(100%) (100%)	50/50 Mean	(100%) 100%	SD 0%	Total	46/50 91/100	(92%) (91%)	45/50 Mean	(90%) 91%	SD 1.41%
.....												
#All Organs: Hemangioma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
#All Organs: Hemangiosarcoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#All Organs: Hemangiosarcoma or Hemangioma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
#All Organs: Histiocytic Sarcoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) 0%	SD 0%
#All Organs: Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated												
Overall Incidence	Total	10/50 19/100	(20%) (19%)	9/50 Mean 19%	(18%) 19%	SD 1.41%	Total	8/50 13/100	(16%) (13%)	5/50 Mean 13%	(10%) 13%	SD 4.24%
#All Organs: Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) 0%	SD 0%
#All Organs: Mesothelioma: Benign												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) 0%	SD 0%
#All Organs: Mesothelioma: Benign, Malignant, NOS												
Overall Incidence	Total	3/50 5/100	(6%) (5%)	2/50 Mean 5%	(4%) 5%	SD 1.41%	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%) 1%	SD 1.41%
#All Organs: Mesothelioma: Malignant												
Overall Incidence	Total	3/50 5/100	(6%) (5%)	2/50 Mean 5%	(4%) 5%	SD 1.41%	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%) 1%	SD 1.41%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
#All Organs: Osteoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#All Organs: Osteosarcoma												
Overall Incidence	Total	2/50 3/100	(4%) (3%)	1/50 Mean	(2%) 3%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#All Organs: Osteosarcoma or Osteoma												
Overall Incidence	Total	2/50 3/100	(4%) (3%)	1/50 Mean	(2%) 3%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Adrenal Cortex: Adenoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Adrenal Cortex: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Adrenal Medulla: Ganglioneuroma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Page: 8  
Report Date:10/04/2007

Male						Female								
<b>*Adrenal Medulla: Hemangioma</b>														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
.....														
<b>*Adrenal Medulla: Pheochromocytoma Benign</b>														
Overall Incidence	Total	5/50 16/100	(10%) (16%)	11/50 Mean	(22%) 16%	SD	8.49%	Total	2/50 3/100	(4%) (3%)	1/50 Mean	(2%) 3%	SD	1.41%
.....														
<b>*Adrenal Medulla: Pheochromocytoma Complex</b>														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
<b>*Adrenal Medulla: Pheochromocytoma Malignant</b>														
Overall Incidence	Total	3/50 5/100	(6%) (5%)	2/50 Mean	(4%) 5%	SD	1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
<b>*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS</b>														
Overall Incidence	Total	7/50 20/100	(14%) (20%)	13/50 Mean	(26%) 20%	SD	8.49%	Total	2/50 3/100	(4%) (3%)	1/50 Mean	(2%) 3%	SD	1.41%
.....														
<b>#Blood Vessel: Osteosarcoma</b>														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
#Bone: Chondrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Chondrosarcoma or Chondroma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Chordoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Osteoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Osteosarcoma												
Overall Incidence	Total	2/50 3/100	(4%) (3%)	1/50 Mean	(2%) 3%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Osteosarcoma or Osteoma												
Overall Incidence	Total	2/50 3/100	(4%) (3%)	1/50 Mean	(2%) 3%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female					
<b>*Brain: Astrocytoma Malignant</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain: Ependymoma Benign</b>											
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	SD 1.41%	Total	0/50	(0%)	0/50	(0%)
		1/100	(1%)	Mean 1%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain: Glioma Malignant</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain: Granular Cell Tumor Benign</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain: Medulloblastoma Mal</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain: Meningioma Malignant</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Page: 11  
Report Date:10/04/2007

Male						Female					
<b>*Brain: Meningioma: Benign, Malignant, NOS</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain: Oligodendroglioma Benign</b>											
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	SD 1.41%	Total	0/50	(0%)	0/50	(0%)
		1/100	(1%)	Mean 1%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain: Oligodendroglioma Malignant</b>											
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	SD 1.41%	Total	1/50	(2%)	0/50	(0%)
		1/100	(1%)	Mean 1%				1/100	(1%)	Mean 1%	SD 1.41%
.....											
<b>*Brain: Oligodendroglioma, Glioma, or Astrocytoma</b>											
Overall Incidence	Total	1/50	(2%)	1/50	(2%)	SD 0%	Total	1/50	(2%)	0/50	(0%)
		2/100	(2%)	Mean 2%				1/100	(1%)	Mean 1%	SD 1.41%
.....											
<b>*Clitoral/Preputial Gland: Adenoma</b>											
Overall Incidence	Total	2/50	(4%)	5/50	(10%)	SD 4.24%	Total	3/48	(6%)	7/50	(14%)
		7/100	(7%)	Mean 7%				10/98	(10.2%)	Mean 10.12%	SD 5.48%
.....											
<b>*Clitoral/Preputial Gland: Carcinoma</b>											
Overall Incidence	Total	2/50	(4%)	0/50	(0%)	SD 2.83%	Total	2/48	(4%)	0/50	(0%)
		2/100	(2%)	Mean 2%				2/98	(2.04%)	Mean 2.08%	SD 2.95%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
*Clitoral/Preputial Gland: Carcinoma or Adenoma												
Overall Incidence	Total	4/50 9/100	(8%) (9%)	5/50 Mean	(10%) 9%	SD 1.41%	Total	5/48 12/98	(10%) (12.24%)	7/50 Mean	(14%) 12.21%	SD 2.53%
.....												
*Clitoral/Preputial Gland: Fibrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/48 0/98	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Clitoral/Preputial Gland: Squamous Cell Papilloma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/48 0/98	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Ear: Neural Crest Tumor												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Esophagus: Fibrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Eye: Amelanotic Melanoma, Benign												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
#Eye: Melanoma Benign												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Eye: Schwannoma Malignant												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Harderian Gland: Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Harderian Gland: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Harderian Gland: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Heart: Schwannoma Benign												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
*Heart: Schwannoma Malignant														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Intestine Large: Colon/Rectum: Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Intestine Large: Colon/Rectum: Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Intestine Large: Colon/Rectum: Leiomyosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Intestine Small: Duodenum: Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
#Intestine Small: Duodenum: Leiomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Jejunum: Leiomyoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Jejunum: Leiomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Site Unspecified: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Site Unspecified: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Site Unspecified: Leiomyoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
#Intestine Small: Site Unspecified: Leiomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Islets, Pancreatic: Adenoma												
Overall Incidence	Total	4/50 6/100	(8%) (6%)	2/50 Mean	(4%) 6%	SD 2.83%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
*Islets, Pancreatic: Carcinoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Islets, Pancreatic: Carcinoma or Adenoma												
Overall Incidence	Total	4/50 7/100	(8%) (7%)	3/50 Mean	(6%) 7%	SD 1.41%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
*Kidney: Pelvis and Transitional Epithelium: Carcinoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
*Kidney: Pelvis and Transitional Epithelium: Papilloma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Kidney: Renal Tubule: Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Kidney: Renal Tubule: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Kidney: Renal Tubule: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Kidney: Renal Tubule: Hemangiosarcoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Kidney: Renal Tubule: Lipoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
<b>*Kidney: Renal Tubule: Liposarcoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
<b>*Kidney: Renal Tubule: Mesenchymal Tumor Benign</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
<b>*Kidney: Renal Tubule: Nephroblastoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
<b>*Kidney: Renal Tubule: Sarcoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
<b>*Liver: Cholangiocarcinoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
<b>*Liver: Cholangioma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male										Female					
*Liver: Hemangiosarcoma															
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
*Liver: Hepatocellular Adenoma															
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
*Liver: Hepatocellular Carcinoma															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
*Liver: Hepatocellular Carcinoma or Hepatoblastoma															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
*Liver: Hepatocellular Carcinoma or Hepatocellular Adenoma															
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
*Liver: Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma															
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male										Female					
*Lung: Alveolar/Bronchiolar Adenoma															
		3/50	(6%)	3/50	(6%)			1/50	(2%)	4/50	(8%)				
Overall Incidence	Total	6/100	(6%)	Mean	6%	SD	0%	Total	5/100	(5%)	Mean	5%	SD	4.24%	
.....															
*Lung: Alveolar/Bronchiolar Carcinoma															
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma															
		4/50	(8%)	3/50	(6%)			1/50	(2%)	4/50	(8%)				
Overall Incidence	Total	7/100	(7%)	Mean	7%	SD	1.41%	Total	5/100	(5%)	Mean	5%	SD	4.24%	
.....															
*Lung: Hemangiosarcoma															
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
*Lung: Sarcoma															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
*Lung: Squamous Cell Carcinoma															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	1/100	(1%)	Mean	1%	SD	1.41%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
#Lymph Node, Mesenteric: Sarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Mammary Gland: Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Mammary Gland: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	4/50 4/100	(8%) (4%)	0/50 Mean	(0%) 4%	SD 5.66%
.....												
#Mammary Gland: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	4/50 4/100	(8%) (4%)	0/50 Mean	(0%) 4%	SD 5.66%
.....												
#Mammary Gland: Fibroadenoma												
Overall Incidence	Total	4/50 4/100	(8%) (4%)	0/50 Mean	(0%) 4%	SD 5.66%	Total	26/50 43/100	(52%) (43%)	17/50 Mean	(34%) 43%	SD 12.73%
.....												
#Mammary Gland: Fibroma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma														
Overall Incidence	Total	4/50	(8%)	0/50	(0%)	SD	5.66%	Total	26/50	(52%)	17/50	(34%)	SD	12.73%
		4/100	(4%)	Mean	4%				43/100	(43%)	Mean	43%		
.....														
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma														
Overall Incidence	Total	4/50	(8%)	0/50	(0%)	SD	5.66%	Total	28/50	(56%)	17/50	(34%)	SD	15.56%
		4/100	(4%)	Mean	4%				45/100	(45%)	Mean	45%		
.....														
#Mesentery: Fibrosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	Total	0/50	(0%)	0/50	(0%)	SD	0%
		0/100	(0%)	Mean	0%				0/100	(0%)	Mean	0%		
.....														
#Mesentery: Hemangiosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	Total	0/50	(0%)	0/50	(0%)	SD	0%
		0/100	(0%)	Mean	0%				0/100	(0%)	Mean	0%		
.....														
#Mesentery: Osteosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	Total	0/50	(0%)	0/50	(0%)	SD	0%
		0/100	(0%)	Mean	0%				0/100	(0%)	Mean	0%		
.....														
#Mesentery: Rhabdomyosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	Total	0/50	(0%)	0/50	(0%)	SD	0%
		0/100	(0%)	Mean	0%				0/100	(0%)	Mean	0%		
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
*Nose: Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Nose: Chondroma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Nose: Sarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Nose: Squamous Cell Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Papilloma Squamous or Papilloma														
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
.....														
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma														
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Page: 24  
Report Date:10/04/2007

Male						Female								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	0/50 2/100	(0%) (2%)	2/50 Mean	(4%) 2%	SD	2.83%
.....														
#Oral Mucosa: Squamous Cell Carcinoma														
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
.....														
#Oral Mucosa: Squamous Cell Papilloma														
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Ovary: Granulosa Cell Tumor Benign														
Overall Incidence								Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
.....														
*Ovary: Granulosa Cell Tumor Malignant														
Overall Incidence								Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS														
Overall Incidence								Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male												Female							
<b>*Ovary: Granulosa-Theca Tumor Benign</b>																			
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%							
.....																			
<b>*Pancreas: Adenoma</b>																			
Overall Incidence						Total	7/50 8/100	(14%) (8%)	1/50 Mean	(2%) 8%	SD	8.49%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....																			
<b>*Pancreas: Carcinoma</b>																			
Overall Incidence						Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....																			
<b>*Pancreas: Carcinoma or Adenoma</b>																			
Overall Incidence						Total	8/50 9/100	(16%) (9%)	1/50 Mean	(2%) 9%	SD	9.9%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....																			
<b>*Pancreas: Mixed Tumor Benign</b>																			
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....																			
<b>*Parathyroid Gland: Adenoma</b>																			
Overall Incidence						Total	0/47 1/92	(0%) (1.09%)	1/45 Mean	(2%) 1.11%	SD	1.57%	Total	0/47 0/94	(0%) (0%)	0/47 Mean	(0%) 0%	SD	0%
.....																			

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male								Female								
#Peripheral Nerve: Schwannoma Malignant																
Overall Incidence		Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total		0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....																
#Peripheral Nerve: Schwannoma: Benign, Malignant, NOS																
Overall Incidence		Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total		0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....																
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma																
Overall Incidence		Total	19/50 25/100	(38%) (25%)	6/50 Mean	(12%) 25%	SD	18.38%	Total		25/50 50/100	(50%) (50%)	25/50 Mean	(50%) 50%	SD	0%
.....																
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma																
Overall Incidence		Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total		0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....																
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma																
Overall Incidence		Total	19/50 25/100	(38%) (25%)	6/50 Mean	(12%) 25%	SD	18.38%	Total		25/50 50/100	(50%) (50%)	25/50 Mean	(50%) 50%	SD	0%
.....																
*Pituitary Gland: Pars Intermedia: Adenoma																
Overall Incidence		Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%	Total		0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....																

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
*Pituitary Gland: Pars Intermedia: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Prostate: Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%						
.....												
*Prostate: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%						
.....												
*Salivary Glands: Sarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/49 0/99	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Salivary Glands: Schwannoma Malignant												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/49 0/99	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male							Female						
#Skeletal Muscle: Fibrosarcoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Skeletal Muscle: Hemangioma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Skeletal Muscle: Hemangiosarcoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Skeletal Muscle: Lipoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Skeletal Muscle: Rhabdomyosarcoma													
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma													
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
#Skeletal Muscle: Sarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Basal Cell Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
#Skin: Basal Cell Adenoma or Basosquamous Tumor Benign														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
#Skin: Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
#Skin: Basal Cell Carcinoma														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE

Vehicle: CORN OIL

Page: 30

Report Date:10/04/2007

Male						Female								
#Skin: Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma														
		1/50	(2%)	1/50	(2%)			0/50	(0%)	1/50	(2%)			
Overall Incidence	Total	2/100	(2%)	Mean	2%	SD	0%	Total	1/100	(1%)	Mean	1%	SD	1.41%
.....														
#Skin: Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma														
		8/50	(16%)	3/50	(6%)			0/50	(0%)	1/50	(2%)			
Overall Incidence	Total	11/100	(11%)	Mean	11%	SD	7.07%	Total	1/100	(1%)	Mean	1%	SD	1.41%
.....														
#Skin: Fibroma														
		5/50	(10%)	3/50	(6%)			0/50	(0%)	2/50	(4%)			
Overall Incidence	Total	8/100	(8%)	Mean	8%	SD	2.83%	Total	2/100	(2%)	Mean	2%	SD	2.83%
.....														
#Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma														
		7/50	(14%)	4/50	(8%)			0/50	(0%)	3/50	(6%)			
Overall Incidence	Total	11/100	(11%)	Mean	11%	SD	4.24%	Total	3/100	(3%)	Mean	3%	SD	4.24%
.....														
#Skin: Fibrosarcoma														
		1/50	(2%)	0/50	(0%)			0/50	(0%)	1/50	(2%)			
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	1/100	(1%)	Mean	1%	SD	1.41%
.....														
#Skin: Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma														
		2/50	(4%)	1/50	(2%)			0/50	(0%)	1/50	(2%)			
Overall Incidence	Total	3/100	(3%)	Mean	3%	SD	1.41%	Total	1/100	(1%)	Mean	1%	SD	1.41%
.....														

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
#Skin: Fibrous Histiocytoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skin: Hemangioma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skin: Hemangiosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skin: Keratoacanthoma												
Overall Incidence	Total	7/50 9/100	(14%) (9%)	2/50 Mean	(4%) 9%	SD 7.07%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skin: Lipoma												
Overall Incidence	Total	2/50 2/100	(4%) (2%)	0/50 Mean	(0%) 2%	SD 2.83%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skin: Liposarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
#Skin: Neural Crest Tumor														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Neurofibroma or Schwannoma benign														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Neurofibrosarcoma or Schwannoma (malignant or NOS)														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Osteosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Sarcoma														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
#Skin: Schwannoma Benign														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Skin: Schwannoma Malignant														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Skin: Squamous Cell Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Skin: Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Skin: Squamous Cell Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Skin: Squamous Cell Papilloma or Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female					
#Skin: Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma											
Overall Incidence		Total	7/50 (14%) 9/100 (9%)	2/50 (4%) Mean 9%	SD 7.07%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
.....											
#Skin: Squamous Cell Papilloma, Papilloma, or Keratoacanthoma											
Overall Incidence		Total	7/50 (14%) 9/100 (9%)	2/50 (4%) Mean 9%	SD 7.07%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
.....											
#Skin: Trichoepithelioma											
Overall Incidence		Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
.....											
#Skin: Sebaceous Gland: Adenoma											
Overall Incidence		Total	1/50 (2%) 2/100 (2%)	1/50 (2%) Mean 2%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
.....											
#Skin: Sebaceous Gland: Carcinoma											
Overall Incidence		Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
.....											
#Skin: Sebaceous Gland: Carcinoma or Adenoma											
Overall Incidence		Total	1/50 (2%) 2/100 (2%)	1/50 (2%) Mean 2%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female					
#Spinal Cord: Astrocytoma Benign											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	1/50	(2%)
		0/100	(0%)	Mean 0%				1/100	(1%)	Mean 1%	SD 1.41%
.....											
*Spleen: Fibrosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
*Spleen: Hemangioma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
*Spleen: Hemangiosarcoma											
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	SD 1.41%	Total	0/50	(0%)	0/50	(0%)
		1/100	(1%)	Mean 1%				0/100	(0%)	Mean 0%	SD 0%
.....											
*Spleen: Leiomyosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
#Stomach, Forestomach: Leiomyosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female						
#Stomach, Forestomach: Schwannoma Malignant												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Stomach, Forestomach: Squamous Cell Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Stomach, Forestomach: Squamous Cell Papilloma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Stomach, Glandular: Leiomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Stomach, Glandular: Lipoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male					Female							
*Testes: Adenoma												
Overall Incidence	Total	46/50 93/100	(92%) (93%)	47/50 Mean 93%	(94%)	SD 1.41%						
.....												
*Thymus: Sarcoma												
Overall Incidence	Total	0/47 0/94	(0%) (0%)	0/47 Mean 0%	(0%)	SD 0%	Total	0/47 0/96	(0%) (0%)	0/49 Mean 0%	(0%)	SD 0%
.....												
*Thymus: Thymoma Benign												
Overall Incidence	Total	0/47 0/94	(0%) (0%)	0/47 Mean 0%	(0%)	SD 0%	Total	0/47 0/96	(0%) (0%)	0/49 Mean 0%	(0%)	SD 0%
.....												
*Thymus: Thymoma Malignant												
Overall Incidence	Total	0/47 0/94	(0%) (0%)	0/47 Mean 0%	(0%)	SD 0%	Total	0/47 0/96	(0%) (0%)	0/49 Mean 0%	(0%)	SD 0%
.....												
*Thymus: Thymoma: Benign, Malignant, NOS												
Overall Incidence	Total	0/47 0/94	(0%) (0%)	0/47 Mean 0%	(0%)	SD 0%	Total	0/47 0/96	(0%) (0%)	0/49 Mean 0%	(0%)	SD 0%
.....												
*Thyroid Gland: C-Cell: Adenoma												
Overall Incidence	Total	9/50 21/100	(18%) (21%)	12/50 Mean 21%	(24%)	SD 4.24%	Total	7/50 12/100	(14%) (12%)	5/50 Mean 12%	(10%)	SD 2.83%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female					
*Thyroid Gland: C-Cell: Carcinoma											
Overall Incidence	Total	6/50	(12%)	0/50	(0%)	SD 8.49%	3/50	(6%)	0/50	(0%)	SD 4.24%
		6/100	(6%)	Mean 6%	3/100		(3%)	Mean 3%			
.....											
*Thyroid Gland: C-Cell: Carcinoma or Adenoma											
Overall Incidence	Total	15/50	(30%)	12/50	(24%)	SD 4.24%	9/50	(18%)	5/50	(10%)	SD 5.66%
		27/100	(27%)	Mean 27%	14/100		(14%)	Mean 14%			
.....											
*Thyroid Gland: Follicular Cell: Adenoma											
Overall Incidence	Total	1/50	(2%)	1/50	(2%)	SD 0%	0/50	(0%)	0/50	(0%)	SD 0%
		2/100	(2%)	Mean 2%	0/100		(0%)	Mean 0%			
.....											
*Thyroid Gland: Follicular Cell: Carcinoma											
Overall Incidence	Total	1/50	(2%)	2/50	(4%)	SD 1.41%	1/50	(2%)	0/50	(0%)	SD 1.41%
		3/100	(3%)	Mean 3%	1/100		(1%)	Mean 1%			
.....											
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma											
Overall Incidence	Total	2/50	(4%)	3/50	(6%)	SD 1.41%	1/50	(2%)	0/50	(0%)	SD 1.41%
		5/100	(5%)	Mean 5%	1/100		(1%)	Mean 1%			
.....											
#Tissue NOS: Fibrosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	0/50	(0%)	0/50	(0%)	SD 0%
		0/100	(0%)	Mean 0%	0/100		(0%)	Mean 0%			
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male							Female						
#Tissue NOS: Leiomyoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Tissue NOS: Lipoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Tissue NOS: Paraganglioma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Tissue NOS: Sarcoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Tissue NOS: Schwannoma Malignant													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Tongue: Liposarcoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female								
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
.....														
#Tongue: Squamous Cell Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
.....														
#Tooth: Odontoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Urinary Bladder: Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Urinary Bladder: Carcinoma or Papilloma														
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Urinary Bladder: Leiomyosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female					
*Urinary Bladder: Papilloma											
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%) SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) SD 0%	
.....											
#Uterus: Adenoma											
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) SD 0%						
.....											
#Uterus: Carcinoma											
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%) SD 1.41%						
.....											
#Uterus: Deciduoma Benign											
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean 1%	(0%) SD 1.41%						
.....											
#Uterus: Hemangioma											
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) SD 0%						
.....											
#Uterus: Hemangiosarcoma											
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) SD 0%						
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

	Male				Female			
#Uterus: Leiomyoma								
Overall Incidence	Total	0/50 0/100	(0%) (0%)		0/50 Mean	(0%) 0%		SD 0%
.....								
#Uterus: Polyp Stromal								
Overall Incidence	Total	8/50 16/100	(16%) (16%)		8/50 Mean	(16%) 16%		SD 0%
.....								
#Uterus: Sarcoma Stromal								
Overall Incidence	Total	0/50 0/100	(0%) (0%)		0/50 Mean	(0%) 0%		SD 0%
.....								
#Uterus: Sarcoma Stromal or Polyp Stromal								
Overall Incidence	Total	8/50 16/100	(16%) (16%)		8/50 Mean	(16%) 16%		SD 0%
.....								
#Uterus: Schwannoma Malignant								
Overall Incidence	Total	0/50 0/100	(0%) (0%)		0/50 Mean	(0%) 0%		SD 0%
.....								
#Vagina: Polyp								
Overall Incidence	Total	1/50 1/100	(2%) (1%)		0/50 Mean	(0%) 1%		SD 1.41%
.....								

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: CORN OIL

Male						Female					
#Vagina: Sarcoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
#Zymbal's Gland: Adenoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
#Zymbal's Gland: Carcinoma											
Overall Incidence						Total	2/50 2/100	(4%) (2%)	0/50 Mean	(0%) 2%	SD 2.83%
.....											
#Zymbal's Gland: Carcinoma or Adenoma											
Overall Incidence						Total	2/50 2/100	(4%) (2%)	0/50 Mean	(0%) 2%	SD 2.83%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

**Version:** Oct2007  
**Contract/Lab:** All Laboratories  
**Species:** RATS  
**Strain:** F344  
**Length of Study:** CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
**Route:** GAVAGE  
**Vehicle:** METHYLCELLULOSE

**Page: 44**  
**Report Date:**10/04/2007

**Study Summary**

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Southern Research Institute	059100507	06/26/00	730	50 (3)	30(693)	520.6	Methylene blue trihydrate
Female							
Southern Research Institute	059100507	06/26/00	733	50 (5)	35(699)	335.9	Methylene blue trihydrate

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 45  
Report Date:10/04/2007

	Male	Female
#All Organs: Benign Tumors	47/50 (94%)	47/50 (94%)
#All Organs: Malignant Tumors	30/50 (60%)	19/50 (38%)
#All Organs: Malignant and Benign Tumors	49/50 (98%)	50/50 (100%)
#All Organs: Hemangioma	1/50 (2%)	0/50 (0%)
#All Organs: Hemangiosarcoma	1/50 (2%)	1/50 (2%)
#All Organs: Hemangiosarcoma or Hemangioma	2/50 (4%)	1/50 (2%)
#All Organs: Histiocytic Sarcoma	0/50 (0%)	1/50 (2%)
#All Organs: Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated	23/50 (46%)	12/50 (24%)

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
**Route:** GAVAGE  
**Vehicle:** METHYLCELLULOSE

**Page: 46**  
**Report Date:**10/04/2007

	Male		Female	
#All Organs:				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type	0/50	(0%)	0/50	(0%)
.....				
#All Organs:				
Mesothelioma: Benign	0/50	(0%)	0/50	(0%)
.....				
#All Organs:				
Mesothelioma: Benign, Malignant, NOS	3/50	(6%)	0/50	(0%)
.....				
#All Organs:				
Mesothelioma: Malignant	3/50	(6%)	0/50	(0%)
.....				
#All Organs:				
Osteoma	0/50	(0%)	0/50	(0%)
.....				
#All Organs:				
Osteosarcoma	0/50	(0%)	1/50	(2%)
.....				
#All Organs:				
Osteosarcoma or Osteoma	0/50	(0%)	1/50	(2%)
.....				
*Adrenal Cortex:				
Adenoma	1/50	(2%)	1/50	(2%)
.....				

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#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Adrenal Cortex: Carcinoma	0/50	(0%)	0/50	(0%)
*Adrenal Medulla: Ganglioneuroma	0/50	(0%)	0/50	(0%)
*Adrenal Medulla: Hemangioma	0/50	(0%)	0/50	(0%)
*Adrenal Medulla: Pheochromocytoma Benign	9/50	(18%)	2/50	(4%)
*Adrenal Medulla: Pheochromocytoma Complex	1/50	(2%)	0/50	(0%)
*Adrenal Medulla: Pheochromocytoma Malignant	1/50	(2%)	0/50	(0%)
*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS	11/50	(22%)	2/50	(4%)
#Blood Vessel: Osteosarcoma	0/50	(0%)	0/50	(0%)

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#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Bone: Chondrosarcoma	0/50	(0%)	0/50	(0%)
#Bone: Chondrosarcoma or Chondroma	0/50	(0%)	0/50	(0%)
#Bone: Chordoma	0/50	(0%)	0/50	(0%)
#Bone: Osteoma	0/50	(0%)	0/50	(0%)
#Bone: Osteosarcoma	0/50	(0%)	1/50	(2%)
#Bone: Osteosarcoma or Osteoma	0/50	(0%)	1/50	(2%)
*Brain: Astrocytoma Malignant	0/50	(0%)	0/50	(0%)
*Brain: Ependymoma Benign	0/50	(0%)	0/50	(0%)

#: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Brain: Glioma Malignant	0/50	(0%)	0/50	(0%)
.....				
*Brain: Granular Cell Tumor Benign	0/50	(0%)	0/50	(0%)
.....				
*Brain: Medulloblastoma Mal	0/50	(0%)	0/50	(0%)
.....				
*Brain: Meningioma Malignant	0/50	(0%)	0/50	(0%)
.....				
*Brain: Meningioma: Benign, Malignant, NOS	0/50	(0%)	0/50	(0%)
.....				
*Brain: Oligodendroglioma Benign	0/50	(0%)	0/50	(0%)
.....				
*Brain: Oligodendroglioma Malignant	0/50	(0%)	0/50	(0%)
.....				
*Brain: Oligodendroglioma, Glioma, or Astrocytoma	0/50	(0%)	0/50	(0%)
.....				

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Clitoral/Preputial Gland: Adenoma	1/50	(2%)	7/50	(14%)
*Clitoral/Preputial Gland: Carcinoma	0/50	(0%)	1/50	(2%)
*Clitoral/Preputial Gland: Carcinoma or Adenoma	1/50	(2%)	8/50	(16%)
*Clitoral/Preputial Gland: Fibrosarcoma	0/50	(0%)	0/50	(0%)
*Clitoral/Preputial Gland: Squamous Cell Papilloma	0/50	(0%)	0/50	(0%)
#Ear: Neural Crest Tumor	0/50	(0%)	0/50	(0%)
#Esophagus: Fibrosarcoma	0/50	(0%)	0/50	(0%)
#Eye: Amelanotic Melanoma, Benign	0/50	(0%)	0/50	(0%)

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#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Eye: Melanoma Benign	0/50	(0%)	0/50	(0%)
#Eye: Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Harderian Gland: Adenoma	0/50	(0%)	0/50	(0%)
#Harderian Gland: Carcinoma	0/50	(0%)	0/50	(0%)
#Harderian Gland: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
*Heart: Schwannoma Benign	0/50	(0%)	0/50	(0%)
*Heart: Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Intestine Large: Colon/Rectum: Adenoma	0/50	(0%)	0/50	(0%)

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Intestine Large: Colon/Rectum: Carcinoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Large: Colon/Rectum: Leiomyosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Duodenum: Carcinoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Duodenum: Leiomyoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Jejunum: Leiomyoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Jejunum: Leiomyosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Site Unspecified: Carcinoma	0/50	(0%)	0/50	(0%)
.....				

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Intestine Small: Site Unspecified: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Site Unspecified: Leiomyoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Site Unspecified: Leiomyosarcoma	0/50	(0%)	0/50	(0%)
.....				
*Islets, Pancreatic: Adenoma	4/50	(8%)	2/49	(4%)
.....				
*Islets, Pancreatic: Carcinoma	0/50	(0%)	0/49	(0%)
.....				
*Islets, Pancreatic: Carcinoma or Adenoma	4/50	(8%)	2/49	(4%)
.....				
*Kidney: Pelvis and Transitional Epithelium: Carcinoma	0/50	(0%)	0/50	(0%)
.....				
*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
.....				

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Kidney: Pelvis and Transitional Epithelium: Papilloma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Adenoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Carcinoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Lipoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Liposarcoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Mesenchymal Tumor Benign	0/50	(0%)	0/50	(0%)

#: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Kidney: Renal Tubule: Nephroblastoma	0/50	(0%)	0/50	(0%)
*Kidney: Renal Tubule: Sarcoma	0/50	(0%)	0/50	(0%)
*Liver: Cholangiocarcinoma	0/50	(0%)	0/50	(0%)
*Liver: Cholangioma	0/50	(0%)	0/50	(0%)
*Liver: Hemangiosarcoma	1/50	(2%)	0/50	(0%)
*Liver: Hepatocellular Adenoma	1/50	(2%)	0/50	(0%)
*Liver: Hepatocellular Carcinoma	0/50	(0%)	0/50	(0%)
*Liver: Hepatocellular Carcinoma or Hepatoblastoma	0/50	(0%)	0/50	(0%)

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 56  
Report Date:10/04/2007

	Male		Female
<hr/>			
*Liver: Hepatocellular Carcinoma or Hepatocellular Adenoma	1/50 (2%)		0/50 (0%)
<hr/>			
*Liver: Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma	1/50 (2%)		0/50 (0%)
<hr/>			
*Lung: Alveolar/Bronchiolar Adenoma	1/50 (2%)		0/50 (0%)
<hr/>			
*Lung: Alveolar/Bronchiolar Carcinoma	0/50 (0%)		0/50 (0%)
<hr/>			
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma	1/50 (2%)		0/50 (0%)
<hr/>			
*Lung: Hemangiosarcoma	0/50 (0%)		0/50 (0%)
<hr/>			
*Lung: Sarcoma	0/50 (0%)		0/50 (0%)
<hr/>			
*Lung: Squamous Cell Carcinoma	0/50 (0%)		0/50 (0%)
<hr/>			

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 57  
Report Date:10/04/2007

	Male		Female	
#Lymph Node, Mesenteric: Sarcoma	0/50	(0%)	0/50	(0%)
#Mammary Gland: Adenoma	0/50	(0%)	1/50	(2%)
#Mammary Gland: Carcinoma	0/50	(0%)	1/50	(2%)
#Mammary Gland: Carcinoma or Adenoma	0/50	(0%)	2/50	(4%)
#Mammary Gland: Fibroadenoma	2/50	(4%)	28/50	(56%)
#Mammary Gland: Fibroma	0/50	(0%)	0/50	(0%)
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma	2/50	(4%)	29/50	(58%)
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma	2/50	(4%)	30/50	(60%)

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Mesentery: Fibrosarcoma	0/50	(0%)	0/50	(0%)
#Mesentery: Hemangiosarcoma	1/50	(2%)	0/50	(0%)
#Mesentery: Osteosarcoma	0/50	(0%)	0/50	(0%)
#Mesentery: Rhabdomyosarcoma	0/50	(0%)	0/50	(0%)
*Nose: Adenoma	0/50	(0%)	0/50	(0%)
*Nose: Chondroma	0/50	(0%)	0/50	(0%)
*Nose: Sarcoma	0/50	(0%)	0/50	(0%)
*Nose: Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)

#: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

**Toxicology Data Management System**

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE

Vehicle: METHYLCELLULOSE

Page: 59

Report Date:10/04/2007

	Male		Female	
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):				
Papilloma Squamous or Papilloma	0/50	(0%)	0/50	(0%)
.....				
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):				
Squamous Cell Carcinoma	1/50	(2%)	1/50	(2%)
.....				
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):				
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma	1/50	(2%)	1/50	(2%)
.....				
#Oral Mucosa:				
Squamous Cell Carcinoma	1/50	(2%)	1/50	(2%)
.....				
#Oral Mucosa:				
Squamous Cell Papilloma	0/50	(0%)	0/50	(0%)
.....				
*Ovary:				
Granulosa Cell Tumor Benign			0/50	(0%)
.....				
*Ovary:				
Granulosa Cell Tumor Malignant			0/50	(0%)
.....				
*Ovary:				
Granulosa Cell Tumor: Benign, Malignant, NOS			0/50	(0%)
.....				

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Ovary:				
Granulosa-Theca Tumor Benign			0/50	(0%)
.....				
*Pancreas:				
Adenoma	0/50	(0%)	1/49	(2%)
.....				
*Pancreas:				
Carcinoma	0/50	(0%)	0/49	(0%)
.....				
*Pancreas:				
Carcinoma or Adenoma	0/50	(0%)	1/49	(2%)
.....				
*Pancreas:				
Mixed Tumor Benign	1/50	(2%)	0/49	(0%)
.....				
*Parathyroid Gland:				
Adenoma	0/50	(0%)	0/47	(0%)
.....				
#Peripheral Nerve:				
Schwannoma Malignant	1/50	(2%)	0/50	(0%)
.....				
#Peripheral Nerve:				
Schwannoma: Benign, Malignant, NOS	1/50	(2%)	0/50	(0%)
.....				

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 61  
Report Date:10/04/2007

	Male	Female
<hr/>		
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma	25/50 (50%)	36/50 (72%)
<hr/>		
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma	0/50 (0%)	0/50 (0%)
<hr/>		
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma	25/50 (50%)	36/50 (72%)
<hr/>		
*Pituitary Gland: Pars Intermedia: Adenoma	0/50 (0%)	0/50 (0%)
<hr/>		
*Pituitary Gland: Pars Intermedia: Carcinoma	0/50 (0%)	0/50 (0%)
<hr/>		
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma	0/50 (0%)	0/50 (0%)
<hr/>		
*Prostate: Adenoma	1/50 (2%)	
<hr/>		
*Prostate: Carcinoma or Adenoma	1/50 (2%)	
<hr/>		

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Salivary Glands: Sarcoma	0/50	(0%)	0/50	(0%)
.....				
*Salivary Glands: Schwannoma Malignant	0/50	(0%)	0/50	(0%)
.....				
#Skeletal Muscle: Fibrosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Skeletal Muscle: Hemangioma	1/50	(2%)	0/50	(0%)
.....				
#Skeletal Muscle: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Skeletal Muscle: Lipoma	0/50	(0%)	0/50	(0%)
.....				
#Skeletal Muscle: Rhabdomyosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma	0/50	(0%)	0/50	(0%)
.....				

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F344  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: GAVAGE**  
**Vehicle: METHYLCELLULOSE**

**Page: 63**  
**Report Date: 10/04/2007**

	Male		Female	
#Skeletal Muscle:				
Sarcoma	0/50	(0%)	0/50	(0%)
.....				
#Skin:				
Basal Cell Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Skin:				
Basal Cell Adenoma or Basosquamous Tumor Benign	0/50	(0%)	0/50	(0%)
.....				
#Skin:				
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma	0/50	(0%)	1/50	(2%)
.....				
#Skin:				
Basal Cell Carcinoma	0/50	(0%)	1/50	(2%)
.....				
#Skin:				
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)	0/50	(0%)	1/50	(2%)
.....				
#Skin:				
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma	0/50	(0%)	2/50	(4%)
.....				
#Skin:				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma	7/50	(14%)	3/50	(6%)

\*: Denominator is number of animals with tissues examined microscopically  
 #: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
**Route:** GAVAGE  
**Vehicle:** METHYLCELLULOSE

**Page: 64**  
**Report Date:**10/04/2007

	Male	Female
#Skin: Fibroma	6/50 (12%)	1/50 (2%)
#Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma	8/50 (16%)	2/50 (4%)
#Skin: Fibrosarcoma	3/50 (6%)	1/50 (2%)
#Skin: Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma	3/50 (6%)	1/50 (2%)
#Skin: Fibrous Histiocytoma	0/50 (0%)	0/50 (0%)
#Skin: Hemangioma	0/50 (0%)	0/50 (0%)
#Skin: Hemangiosarcoma	0/50 (0%)	1/50 (2%)
#Skin: Keratoacanthoma	3/50 (6%)	0/50 (0%)

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Skin: Lipoma	0/50	(0%)	0/50	(0%)
#Skin: Liposarcoma	0/50	(0%)	0/50	(0%)
#Skin: Neural Crest Tumor	1/50	(2%)	0/50	(0%)
#Skin: Neurofibroma or Schwannoma benign	0/50	(0%)	0/50	(0%)
#Skin: Neurofibrosarcoma or Schwannoma (malignant or NOS)	0/50	(0%)	0/50	(0%)
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)	0/50	(0%)	0/50	(0%)
#Skin: Osteosarcoma	0/50	(0%)	0/50	(0%)
#Skin: Sarcoma	0/50	(0%)	0/50	(0%)

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F344  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: GAVAGE**  
**Vehicle: METHYLCELLULOSE**

**Page: 66**  
**Report Date: 10/04/2007**

	Male		Female	
#Skin:				
Schwannoma Benign	0/50	(0%)	0/50	(0%)
#Skin:				
Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Skin:				
Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)
#Skin:				
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma	0/50	(0%)	1/50	(2%)
#Skin:				
Squamous Cell Papilloma	4/50	(8%)	1/50	(2%)
#Skin:				
Squamous Cell Papilloma or Papilloma	4/50	(8%)	1/50	(2%)
#Skin:				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma	7/50	(14%)	1/50	(2%)
#Skin:				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma	7/50	(14%)	1/50	(2%)

\*: Denominator is number of animals with tissues examined microscopically  
 #: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Skin:				
Trichoepithelioma	0/50	(0%)	1/50	(2%)
.....				
#Skin: Sebaceous Gland:				
Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Skin: Sebaceous Gland:				
Carcinoma	0/50	(0%)	0/50	(0%)
.....				
#Skin: Sebaceous Gland:				
Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Spinal Cord:				
Astrocytoma Benign	0/50	(0%)	0/50	(0%)
.....				
*Spleen:				
Fibrosarcoma	0/50	(0%)	0/49	(0%)
.....				
*Spleen:				
Hemangioma	0/50	(0%)	0/49	(0%)
.....				
*Spleen:				
Hemangiosarcoma	1/50	(2%)	0/49	(0%)
.....				

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 68  
Report Date:10/04/2007

	Male		Female	
*Spleen:				
Leiomyosarcoma	0/50	(0%)	0/49	(0%)
#Stomach, Forestomach:				
Leiomyosarcoma	0/50	(0%)	0/50	(0%)
#Stomach, Forestomach:				
Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Stomach, Forestomach:				
Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)
#Stomach, Forestomach:				
Squamous Cell Carcinoma or Papilloma Squamous	0/50	(0%)	1/50	(2%)
#Stomach, Forestomach:				
Squamous Cell Papilloma	0/50	(0%)	1/50	(2%)
#Stomach, Glandular:				
Leiomyosarcoma	0/50	(0%)	0/50	(0%)
#Stomach, Glandular:				
Lipoma	0/50	(0%)	0/50	(0%)

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#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Testes:				
Adenoma	41/50	(82%)		
.....				
*Thymus:				
Sarcoma	0/49	(0%)	0/50	(0%)
.....				
*Thymus:				
Thymoma Benign	0/49	(0%)	1/50	(2%)
.....				
*Thymus:				
Thymoma Malignant	0/49	(0%)	0/50	(0%)
.....				
*Thymus:				
Thymoma: Benign, Malignant, NOS	0/49	(0%)	1/50	(2%)
.....				
*Thyroid Gland: C-Cell:				
Adenoma	6/50	(12%)	7/50	(14%)
.....				
*Thyroid Gland: C-Cell:				
Carcinoma	2/50	(4%)	0/50	(0%)
.....				
*Thyroid Gland: C-Cell:				
Carcinoma or Adenoma	8/50	(16%)	7/50	(14%)
.....				

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Thyroid Gland: Follicular Cell: Adenoma	0/50	(0%)	0/50	(0%)
.....				
*Thyroid Gland: Follicular Cell: Carcinoma	0/50	(0%)	0/50	(0%)
.....				
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Tissue NOS: Fibrosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Tissue NOS: Leiomyoma	0/50	(0%)	0/50	(0%)
.....				
#Tissue NOS: Lipoma	0/50	(0%)	0/50	(0%)
.....				
#Tissue NOS: Paraganglioma	0/50	(0%)	0/50	(0%)
.....				
#Tissue NOS: Sarcoma	0/50	(0%)	0/50	(0%)
.....				

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Tissue NOS: Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Tongue: Liposarcoma	0/50	(0%)	0/50	(0%)
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous	0/50	(0%)	0/50	(0%)
#Tongue: Squamous Cell Papilloma	0/50	(0%)	0/50	(0%)
#Tooth: Odontoma	0/50	(0%)	0/50	(0%)
*Urinary Bladder: Carcinoma	0/50	(0%)	0/50	(0%)
*Urinary Bladder: Carcinoma or Papilloma	0/50	(0%)	0/50	(0%)
*Urinary Bladder: Leiomyosarcoma	0/50	(0%)	0/50	(0%)

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 72  
Report Date:10/04/2007

	Male			Female	
*Urinary Bladder: Papilloma	0/50	(0%)		0/50	(0%)
#Uterus: Adenoma				0/50	(0%)
#Uterus: Carcinoma				0/50	(0%)
#Uterus: Deciduoma Benign				0/50	(0%)
#Uterus: Hemangioma				0/50	(0%)
#Uterus: Hemangiosarcoma				0/50	(0%)
#Uterus: Leiomyoma				0/50	(0%)
#Uterus: Polyp Stromal				13/50	(26%)

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 73  
Report Date:10/04/2007

	Male		Female
#Uterus: Sarcoma Stromal			2/50 (4%)
.....			
#Uterus: Sarcoma Stromal or Polyp Stromal			15/50 (30%)
.....			
#Uterus: Schwannoma Malignant			0/50 (0%)
.....			
#Vagina: Polyp			0/50 (0%)
.....			
#Vagina: Sarcoma			0/50 (0%)
.....			
#Zymbal's Gland: Adenoma	0/50 (0%)		0/50 (0%)
.....			
#Zymbal's Gland: Carcinoma	0/50 (0%)		0/50 (0%)
.....			
#Zymbal's Gland: Carcinoma or Adenoma	0/50 (0%)		0/50 (0%)
.....			

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

**Toxicology Data Management System**

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE

Vehicle: WATER

Page: 74

Report Date:10/04/2007

**Study Summary**

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Columbus Laboratory	058812305	03/21/01	727	50 (3)	26(673)	509.7	Formamide
Battelle Columbus Laboratory	059501107	03/06/02	727	50 (3)	22(673)	510.3	5-(Hydroxymethyl)-2-furfural
Female							
Battelle Columbus Laboratory	058812305	03/20/01	730	50 (5)	38(703)	358.3	Formamide
Battelle Columbus Laboratory	059501107	03/07/02	728	50 (5)	31(679)	332.2	5-(Hydroxymethyl)-2-furfural

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 75  
Report Date:10/04/2007

Male						Female						
#All Organs: Benign Tumors												
Overall Incidence	Total	45/50 95/100	(90%) (95%)	50/50 Mean 95%	(100%)	SD 7.07%	Total	43/50 89/100	(86%) (89%)	46/50 Mean 89%	(92%)	SD 4.24%
.....												
#All Organs: Malignant Tumors												
Overall Incidence	Total	25/50 60/100	(50%) (60%)	35/50 Mean 60%	(70%)	SD 14.14%	Total	15/50 31/100	(30%) (31%)	16/50 Mean 31%	(32%)	SD 1.41%
.....												
#All Organs: Malignant and Benign Tumors												
Overall Incidence	Total	48/50 98/100	(96%) (98%)	50/50 Mean 98%	(100%)	SD 2.83%	Total	49/50 97/100	(98%) (97%)	48/50 Mean 97%	(96%)	SD 1.41%
.....												
#All Organs: Hemangioma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%
.....												
#All Organs: Hemangiosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%
.....												
#All Organs: Hemangiosarcoma or Hemangioma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 76  
Report Date:10/04/2007

Male										Female					
#All Organs: Histiocytic Sarcoma															
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
#All Organs: Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated															
		15/50	(30%)	28/50	(56%)			10/50	(20%)	9/50	(18%)				
Overall Incidence	Total	43/100	(43%)	Mean	43%	SD	18.38%	Total	19/100	(19%)	Mean	19%	SD	1.41%	
.....															
#All Organs: Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
#All Organs: Mesothelioma: Benign															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
#All Organs: Mesothelioma: Benign, Malignant, NOS															
		2/50	(4%)	2/50	(4%)			2/50	(4%)	0/50	(0%)				
Overall Incidence	Total	4/100	(4%)	Mean	4%	SD	0%	Total	2/100	(2%)	Mean	2%	SD	2.83%	
.....															
#All Organs: Mesothelioma: Malignant															
		2/50	(4%)	2/50	(4%)			2/50	(4%)	0/50	(0%)				
Overall Incidence	Total	4/100	(4%)	Mean	4%	SD	0%	Total	2/100	(2%)	Mean	2%	SD	2.83%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 77  
Report Date:10/04/2007

Male						Female						
#All Organs: Osteoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#All Organs: Osteosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
#All Organs: Osteosarcoma or Osteoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
*Adrenal Cortex: Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
*Adrenal Cortex: Carcinoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Adrenal Medulla: Ganglioneuroma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 78  
Report Date:10/04/2007

Male						Female								
<b>*Adrenal Medulla: Hemangioma</b>														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
<b>*Adrenal Medulla: Pheochromocytoma Benign</b>														
Overall Incidence	Total	9/50 14/100	(18%) (14%)	5/50 Mean	(10%) 14%	SD	5.66%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
<b>*Adrenal Medulla: Pheochromocytoma Complex</b>														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
<b>*Adrenal Medulla: Pheochromocytoma Malignant</b>														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
<b>*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS</b>														
Overall Incidence	Total	9/50 14/100	(18%) (14%)	5/50 Mean	(10%) 14%	SD	5.66%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
<b>#Blood Vessel: Osteosarcoma</b>														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female						
#Bone: Chondrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Chondrosarcoma or Chondroma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Chordoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Osteoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Osteosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
#Bone: Osteosarcoma or Osteoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 80  
Report Date:10/04/2007

Male						Female					
*Brain: Astrocytoma Malignant											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
*Brain: Ependymoma Benign											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
*Brain: Glioma Malignant											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
*Brain: Granular Cell Tumor Benign											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	1/50	(2%)	0/50	(0%)
		0/100	(0%)	Mean 0%				1/100	(1%)	Mean 1%	SD 1.41%
.....											
*Brain: Medulloblastoma Mal											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
*Brain: Meningioma Malignant											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 81  
Report Date:10/04/2007

Male						Female					
<b>*Brain:</b>											
<b>Meningioma: Benign, Malignant, NOS</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain:</b>											
<b>Oligodendroglioma Benign</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain:</b>											
<b>Oligodendroglioma Malignant</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain:</b>											
<b>Oligodendroglioma, Glioma, or Astrocytoma</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Clitoral/Preputial Gland:</b>											
<b>Adenoma</b>											
Overall Incidence	Total	1/50	(2%)	5/50	(10%)	SD 5.66%	Total	2/50	(4%)	3/50	(6%)
		6/100	(6%)	Mean 6%				5/100	(5%)	Mean 5%	SD 1.41%
.....											
<b>*Clitoral/Preputial Gland:</b>											
<b>Carcinoma</b>											
Overall Incidence	Total	1/50	(2%)	1/50	(2%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		2/100	(2%)	Mean 2%				0/100	(0%)	Mean 0%	SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female						
<b>*Clitoral/Preputial Gland: Carcinoma or Adenoma</b>												
Overall Incidence	Total	2/50 8/100	(4%) (8%)	6/50 Mean 8%	(12%)	SD 5.66%	Total	2/50 5/100	(4%) (5%)	3/50 Mean 5%	(6%)	SD 1.41%
.....												
<b>*Clitoral/Preputial Gland: Fibrosarcoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%
.....												
<b>*Clitoral/Preputial Gland: Squamous Cell Papilloma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%
.....												
<b>#Ear: Neural Crest Tumor</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%
.....												
<b>#Esophagus: Fibrosarcoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%
.....												
<b>#Eye: Amelanotic Melanoma, Benign</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male							Female							
#Eye:														
Melanoma Benign														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Eye:														
Schwannoma Malignant														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Harderian Gland:														
Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Harderian Gland:														
Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Harderian Gland:														
Carcinoma or Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
*Heart:														
Schwannoma Benign														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female						
*Heart: Schwannoma Malignant												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
#Intestine Large: Colon/Rectum: Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
#Intestine Large: Colon/Rectum: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
#Intestine Large: Colon/Rectum: Leiomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Duodenum: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female						
#Intestine Small: Duodenum: Leiomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Jejunum: Leiomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Jejunum: Leiomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Site Unspecified: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Site Unspecified: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Site Unspecified: Leiomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 86  
Report Date:10/04/2007

Male						Female						
#Intestine Small: Site Unspecified: Leiomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Islets, Pancreatic: Adenoma												
Overall Incidence	Total	2/50 4/100	(4%) (4%)	2/50 Mean	(4%) 4%	SD 0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%
.....												
*Islets, Pancreatic: Carcinoma												
Overall Incidence	Total	1/50 3/100	(2%) (3%)	2/50 Mean	(4%) 3%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Islets, Pancreatic: Carcinoma or Adenoma												
Overall Incidence	Total	3/50 7/100	(6%) (7%)	4/50 Mean	(8%) 7%	SD 1.41%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%
.....												
*Kidney: Pelvis and Transitional Epithelium: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 87  
Report Date:10/04/2007

Male						Female						
<b>*Kidney: Pelvis and Transitional Epithelium: Papilloma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
<b>*Kidney: Renal Tubule: Adenoma</b>												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
<b>*Kidney: Renal Tubule: Carcinoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
<b>*Kidney: Renal Tubule: Carcinoma or Adenoma</b>												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
<b>*Kidney: Renal Tubule: Hemangiosarcoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
<b>*Kidney: Renal Tubule: Lipoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female						
<b>*Kidney: Renal Tubule: Liposarcoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
<b>*Kidney: Renal Tubule: Mesenchymal Tumor Benign</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
<b>*Kidney: Renal Tubule: Nephroblastoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
<b>*Kidney: Renal Tubule: Sarcoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
<b>*Liver: Cholangiocarcinoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
<b>*Liver: Cholangioma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 89  
Report Date:10/04/2007

Male						Female								
*Liver: Hemangiosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Liver: Hepatocellular Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	2/50 2/100	(4%) (2%)	0/50 Mean	(0%) 2%	SD	2.83%
.....														
*Liver: Hepatocellular Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Liver: Hepatocellular Carcinoma or Hepatoblastoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Liver: Hepatocellular Carcinoma or Hepatocellular Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	2/50 2/100	(4%) (2%)	0/50 Mean	(0%) 2%	SD	2.83%
.....														
*Liver: Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	2/50 2/100	(4%) (2%)	0/50 Mean	(0%) 2%	SD	2.83%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 90  
Report Date:10/04/2007

Male						Female						
<b>*Lung: Alveolar/Bronchiolar Adenoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%
<b>*Lung: Alveolar/Bronchiolar Carcinoma</b>												
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD 0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%
<b>*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>												
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD 0%	Total	2/50 2/100	(4%) (2%)	0/50 Mean	(0%) 2%	SD 2.83%
<b>*Lung: Hemangiosarcoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
<b>*Lung: Sarcoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
<b>*Lung: Squamous Cell Carcinoma</b>												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 91  
Report Date:10/04/2007

Male						Female						
#Lymph Node, Mesenteric: Sarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Mammary Gland: Adenoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 2/100	(0%) (2%)	2/50 Mean	(4%) 2%	SD 2.83%
.....												
#Mammary Gland: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	2/50 2/100	(4%) (2%)	0/50 Mean	(0%) 2%	SD 2.83%
.....												
#Mammary Gland: Carcinoma or Adenoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	2/50 4/100	(4%) (4%)	2/50 Mean	(4%) 4%	SD 0%
.....												
#Mammary Gland: Fibroadenoma												
Overall Incidence	Total	2/50 3/100	(4%) (3%)	1/50 Mean	(2%) 3%	SD 1.41%	Total	33/50 62/100	(66%) (62%)	29/50 Mean	(58%) 62%	SD 5.66%
.....												
#Mammary Gland: Fibroma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 92  
Report Date:10/04/2007

Male						Female						
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma												
Overall Incidence	Total	4/50	(8%)	1/50	(2%)	SD	4.24%	Total	33/50	(66%)	30/50	(60%)
		5/100	(5%)	Mean	5%				63/100	(63%)	Mean	63%
.....												
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma												
Overall Incidence	Total	4/50	(8%)	1/50	(2%)	SD	4.24%	Total	35/50	(70%)	30/50	(60%)
		5/100	(5%)	Mean	5%				65/100	(65%)	Mean	65%
.....												
#Mesentery: Fibrosarcoma												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean	0%				0/100	(0%)	Mean	0%
.....												
#Mesentery: Hemangiosarcoma												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean	0%				0/100	(0%)	Mean	0%
.....												
#Mesentery: Osteosarcoma												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean	0%				0/100	(0%)	Mean	0%
.....												
#Mesentery: Rhabdomyosarcoma												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean	0%				0/100	(0%)	Mean	0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 93  
Report Date:10/04/2007

Male						Female								
*Nose: Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Nose: Chondroma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Nose: Sarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Nose: Squamous Cell Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Papilloma Squamous or Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female								
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%
.....														
#Oral Mucosa: Squamous Cell Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%
.....														
#Oral Mucosa: Squamous Cell Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Ovary: Granulosa Cell Tumor Benign														
Overall Incidence								Total	0/50 0/99	(0%) (0%)	0/49 Mean	(0%) 0%	SD	0%
.....														
*Ovary: Granulosa Cell Tumor Malignant														
Overall Incidence								Total	0/50 0/99	(0%) (0%)	0/49 Mean	(0%) 0%	SD	0%
.....														
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS														
Overall Incidence								Total	0/50 0/99	(0%) (0%)	0/49 Mean	(0%) 0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female					
*Ovary: Granulosa-Theca Tumor Benign											
Overall Incidence						Total	0/50 0/99	(0%) (0%)	0/49 Mean	(0%) 0%	SD 0%
.....											
*Pancreas: Adenoma											
Overall Incidence						Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
*Pancreas: Carcinoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
*Pancreas: Carcinoma or Adenoma											
Overall Incidence						Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
*Pancreas: Mixed Tumor Benign											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
*Parathyroid Gland: Adenoma											
Overall Incidence						Total	0/48 0/97	(0%) (0%)	0/49 Mean	(0%) 0%	SD 0%
						Total	0/46 0/94	(0%) (0%)	0/48 Mean	(0%) 0%	SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 96  
Report Date:10/04/2007

Male						Female								
#Peripheral Nerve: Schwannoma Malignant														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Peripheral Nerve: Schwannoma: Benign, Malignant, NOS														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma														
Overall Incidence	Total	11/50 26/100	(22%) (26%)	15/50 Mean	(30%) 26%	SD	5.66%	Total	22/50 46/100	(44%) (46%)	24/50 Mean	(48%) 46%	SD	2.83%
.....														
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	2/50 3/100	(4%) (3%)	1/50 Mean	(2%) 3%	SD	1.41%
.....														
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma														
Overall Incidence	Total	11/50 26/100	(22%) (26%)	15/50 Mean	(30%) 26%	SD	5.66%	Total	24/50 49/100	(48%) (49%)	25/50 Mean	(50%) 49%	SD	1.41%
.....														
*Pituitary Gland: Pars Intermedia: Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female						
*Pituitary Gland: Pars Intermedia: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Prostate: Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%						
.....												
*Prostate: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%						
.....												
*Salivary Glands: Sarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Salivary Glands: Schwannoma Malignant												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 98  
Report Date:10/04/2007

Male						Female						
#Skeletal Muscle: Fibrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skeletal Muscle: Hemangioma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skeletal Muscle: Hemangiosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skeletal Muscle: Lipoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skeletal Muscle: Rhabdomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 99  
Report Date:10/04/2007

Male							Female							
#Skeletal Muscle: Sarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Basal Cell Adenoma														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%
#Skin: Basal Cell Adenoma or Basosquamous Tumor Benign														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%
#Skin: Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	2/50 2/100	(4%) (2%)	0/50 Mean	(0%) 2%	SD	2.83%
#Skin: Basal Cell Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE

Vehicle: WATER

Page: 100

Report Date:10/04/2007

Male						Female								
#Skin: Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma														
		1/50	(2%)	1/50	(2%)			2/50	(4%)	0/50	(0%)			
Overall Incidence	Total	2/100	(2%)	Mean	2%	SD	0%	Total	2/100	(2%)	Mean	2%	SD	2.83%
.....														
#Skin: Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma														
		10/50	(20%)	4/50	(8%)			4/50	(8%)	0/50	(0%)			
Overall Incidence	Total	14/100	(14%)	Mean	14%	SD	8.49%	Total	4/100	(4%)	Mean	4%	SD	5.66%
.....														
#Skin: Fibroma														
		6/50	(12%)	5/50	(10%)			1/50	(2%)	1/50	(2%)			
Overall Incidence	Total	11/100	(11%)	Mean	11%	SD	1.41%	Total	2/100	(2%)	Mean	2%	SD	0%
.....														
#Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma														
		7/50	(14%)	6/50	(12%)			1/50	(2%)	1/50	(2%)			
Overall Incidence	Total	13/100	(13%)	Mean	13%	SD	1.41%	Total	2/100	(2%)	Mean	2%	SD	0%
.....														
#Skin: Fibrosarcoma														
		0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%
.....														
#Skin: Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma														
		1/50	(2%)	1/50	(2%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	2/100	(2%)	Mean	2%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 101  
Report Date:10/04/2007

Male						Female					
#Skin:											
Fibrous Histiocytoma											
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	SD 1.41%	Total	0/50	(0%)	0/50	(0%)
		1/100	(1%)	Mean 1%				0/100	(0%)	Mean 0%	SD 0%
.....											
#Skin:											
Hemangioma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
#Skin:											
Hemangiosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
#Skin:											
Keratoacanthoma											
Overall Incidence	Total	8/50	(16%)	2/50	(4%)	SD 8.49%	Total	2/50	(4%)	0/50	(0%)
		10/100	(10%)	Mean 10%				2/100	(2%)	Mean 2%	SD 2.83%
.....											
#Skin:											
Lipoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
#Skin:											
Liposarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female								
#Skin: Neural Crest Tumor														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Neurofibroma or Schwannoma benign														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Neurofibrosarcoma or Schwannoma (malignant or NOS)														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%
#Skin: Osteosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Sarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 103  
Report Date:10/04/2007

Male						Female						
#Skin: Schwannoma Benign												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
#Skin: Schwannoma Malignant												
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
#Skin: Squamous Cell Carcinoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
#Skin: Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
#Skin: Squamous Cell Papilloma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
#Skin: Squamous Cell Papilloma or Papilloma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 104  
Report Date:10/04/2007

Male						Female					
#Skin: Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma											
Overall Incidence		Total	9/50 (18%) 12/100 (12%)	3/50 (6%) Mean 12%	SD 8.49%	Total	2/50 (4%) 2/100 (2%)	0/50 (0%) Mean 2%	SD 2.83%		
.....											
#Skin: Squamous Cell Papilloma, Papilloma, or Keratoacanthoma											
Overall Incidence		Total	9/50 (18%) 11/100 (11%)	2/50 (4%) Mean 11%	SD 9.9%	Total	2/50 (4%) 2/100 (2%)	0/50 (0%) Mean 2%	SD 2.83%		
.....											
#Skin: Trichoepithelioma											
Overall Incidence		Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	1/50 (2%) 1/100 (1%)	0/50 (0%) Mean 1%	SD 1.41%		
.....											
#Skin: Sebaceous Gland: Adenoma											
Overall Incidence		Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
.....											
#Skin: Sebaceous Gland: Carcinoma											
Overall Incidence		Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
.....											
#Skin: Sebaceous Gland: Carcinoma or Adenoma											
Overall Incidence		Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%	Total	0/50 (0%) 0/100 (0%)	0/50 (0%) Mean 0%	SD 0%		
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female								
#Spinal Cord: Astrocytoma Benign														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
*Spleen: Fibrosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
*Spleen: Hemangioma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
*Spleen: Hemangiosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
*Spleen: Leiomyosarcoma														
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Stomach, Forestomach: Leiomyosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 106  
Report Date:10/04/2007

Male						Female						
#Stomach, Forestomach: Schwannoma Malignant												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Stomach, Forestomach: Squamous Cell Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
#Stomach, Forestomach: Squamous Cell Papilloma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Stomach, Glandular: Leiomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Stomach, Glandular: Lipoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 107  
Report Date:10/04/2007

Male					Female					
*Testes: Adenoma										
Overall Incidence	Total	44/50 92/100	(88%) (92%)	48/50 Mean 92%	(96%) SD 5.66%					
.....										
*Thymus: Sarcoma										
Overall Incidence	Total	0/49 0/97	(0%) (0%)	0/48 Mean 0%	(0%) SD 0%	Total	0/48 0/96	(0%) (0%)	0/48 Mean 0%	(0%) SD 0%
.....										
*Thymus: Thymoma Benign										
Overall Incidence	Total	0/49 0/97	(0%) (0%)	0/48 Mean 0%	(0%) SD 0%	Total	0/48 1/96	(0%) (1.04%)	1/48 Mean 1.04%	(2%) SD 1.47%
.....										
*Thymus: Thymoma Malignant										
Overall Incidence	Total	0/49 0/97	(0%) (0%)	0/48 Mean 0%	(0%) SD 0%	Total	0/48 0/96	(0%) (0%)	0/48 Mean 0%	(0%) SD 0%
.....										
*Thymus: Thymoma: Benign, Malignant, NOS										
Overall Incidence	Total	0/49 0/97	(0%) (0%)	0/48 Mean 0%	(0%) SD 0%	Total	0/48 1/96	(0%) (1.04%)	1/48 Mean 1.04%	(2%) SD 1.47%
.....										
*Thyroid Gland: C-Cell: Adenoma										
Overall Incidence	Total	6/50 7/100	(12%) (7%)	1/50 Mean 7%	(2%) SD 7.07%	Total	5/50 16/100	(10%) (16%)	11/50 Mean 16%	(22%) SD 8.49%
.....										

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female						
*Thyroid Gland: C-Cell: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
*Thyroid Gland: C-Cell: Carcinoma or Adenoma												
Overall Incidence	Total	6/50 7/100	(12%) (7%)	1/50 Mean	(2%) 7%	SD 7.07%	Total	5/50 17/100	(10%) (17%)	12/50 Mean	(24%) 17%	SD 9.9%
.....												
*Thyroid Gland: Follicular Cell: Adenoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
*Thyroid Gland: Follicular Cell: Carcinoma												
Overall Incidence	Total	1/50 3/100	(2%) (3%)	2/50 Mean	(4%) 3%	SD 1.41%	Total	0/50 2/100	(0%) (2%)	2/50 Mean	(4%) 2%	SD 2.83%
.....												
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma												
Overall Incidence	Total	1/50 4/100	(2%) (4%)	3/50 Mean	(6%) 4%	SD 2.83%	Total	0/50 2/100	(0%) (2%)	2/50 Mean	(4%) 2%	SD 2.83%
.....												
#Tissue NOS: Fibrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 109  
Report Date:10/04/2007

Male						Female						
#Tissue NOS: Leiomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Tissue NOS: Lipoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Tissue NOS: Paraganglioma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Tissue NOS: Sarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Tissue NOS: Schwannoma Malignant												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Tongue: Liposarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Page: 110  
Report Date:10/04/2007

Male						Female								
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Tongue: Squamous Cell Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Tooth: Odontoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Urinary Bladder: Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Urinary Bladder: Carcinoma or Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Urinary Bladder: Leiomyosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male							Female						
*Urinary Bladder: Papilloma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Uterus: Adenoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%							
.....													
#Uterus: Carcinoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%							
.....													
#Uterus: Deciduoma Benign													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%							
.....													
#Uterus: Hemangioma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%							
.....													
#Uterus: Hemangiosarcoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%							
.....													

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

	Male				Female		
#Uterus: Leiomyoma							
Overall Incidence	Total	0/50 0/100	(0%) (0%)		0/50 Mean 0%	(0%) 0%	SD 0%
.....							
#Uterus: Polyp Stromal							
Overall Incidence	Total	7/50 15/100	(14%) (15%)		8/50 Mean 15%	(16%) 15%	SD 1.41%
.....							
#Uterus: Sarcoma Stromal							
Overall Incidence	Total	0/50 0/100	(0%) (0%)		0/50 Mean 0%	(0%) 0%	SD 0%
.....							
#Uterus: Sarcoma Stromal or Polyp Stromal							
Overall Incidence	Total	7/50 15/100	(14%) (15%)		8/50 Mean 15%	(16%) 15%	SD 1.41%
.....							
#Uterus: Schwannoma Malignant							
Overall Incidence	Total	1/50 1/100	(2%) (1%)		0/50 Mean 1%	(0%) 1%	SD 1.41%
.....							
#Vagina: Polyp							
Overall Incidence	Total	0/50 0/100	(0%) (0%)		0/50 Mean 0%	(0%) 0%	SD 0%
.....							

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: WATER

Male						Female					
#Vagina:											
Sarcoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
#Zymbal's Gland:											
Adenoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
#Zymbal's Gland:											
Carcinoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
#Zymbal's Gland:											
Carcinoma or Adenoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
Route: INHALATION  
Vehicle: AIR

Page: 114  
Report Date:10/04/2007

**Study Summary**

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
<b>Male</b>							
Battelle Northwest	059601105	06/04/01	729	50 (5)	26(676)	540.9	Cumene
Battelle Northwest	058800405	09/13/99	729	50 (5)	31(686)	519.5	Divinylbenzene
Battelle Northwest	059700601	05/25/00	726	50 (5)	32(693)	529.7	Methyl isobutyl ketone
Battelle Northwest	058800603	08/06/01	729	50 (5)	27(680)	537.2	alpha-Methylstyrene
Battelle Northwest	059700805	10/01/01	729	49 (5)	27(683)	525.0	Propargyl alcohol
Battelle Northwest	059600105	01/18/99	729	50 (5)	29(701)	534.2	Stoddard solvent (type IIC)
<b>Female</b>							
Battelle Northwest	059601105	06/04/01	731	50 (5)	21(674)	356.9	Cumene
Battelle Northwest	058800405	09/13/99	731	50 (5)	33(679)	355.3	Divinylbenzene
Battelle Northwest	059700601	05/25/00	727	50 (5)	35(694)	365.6	Methyl isobutyl ketone
Battelle Northwest	058800603	08/06/01	730	50 (5)	27(647)	351.9	alpha-Methylstyrene
Battelle Northwest	059700805	10/01/01	730	50 (5)	29(678)	353.3	Propargyl alcohol
Battelle Northwest	059600105	01/18/99	730	50 (5)	36(696)	363.6	Stoddard solvent (type IIC)

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
**Route:** INHALATION  
**Vehicle:** AIR

Page: 115

Report Date:10/04/2007

Male												Female					
#All Organs:																	
Benign Tumors																	
		48/50	(96%)	49/50	(98%)	50/50	(100%)			44/50	(88%)	43/50	(86%)	44/50	(88%)		
		48/50	(96%)	48/49	(98%)	50/50	(100%)			43/50	(86%)	42/50	(84%)	37/50	(74%)		
Overall Incidence	Total	293/299 (97.99%)		Mean 97.99%		SD 1.79%		Total	253/300 (84.33%)		Mean 84.33%		SD 5.28%				
#All Organs:																	
Malignant Tumors																	
		36/50	(72%)	29/50	(58%)	31/50	(62%)			24/50	(48%)	17/50	(34%)	22/50	(44%)		
		32/50	(64%)	32/49	(65%)	33/50	(66%)			25/50	(50%)	26/50	(52%)	30/50	(60%)		
Overall Incidence	Total	193/299 (64.55%)		Mean 64.55%		SD 4.65%		Total	144/300 (48%)		Mean 48%		SD 8.67%				
#All Organs:																	
Malignant and Benign Tumors																	
		50/50	(100%)	50/50	(100%)	50/50	(100%)			50/50	(100%)	46/50	(92%)	46/50	(92%)		
		50/50	(100%)	49/49	(100%)	50/50	(100%)			46/50	(92%)	47/50	(94%)	44/50	(88%)		
Overall Incidence	Total	299/299 (100%)		Mean 100%		SD 0%		Total	279/300 (93%)		Mean 93%		SD 3.95%				
#All Organs:																	
Hemangioma																	
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/299 (0.33%)		Mean 0.33%		SD 0.82%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%				
#All Organs:																	
Hemangiosarcoma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	2/50	(4%)	0/50	(0%)		
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	2/300 (0.67%)		Mean 0.67%		SD 1.63%				

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 116

Report Date:10/04/2007

		Male						Female						
#All Organs:														
Hemangiosarcoma or Hemangioma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	1/50	(2%)	2/50	(4%)	0/50	(0%)	
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	3/300	(1%)	Mean	1%	SD	1.67%
.....														
#All Organs:														
Histiocytic Sarcoma														
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	2/50	(4%)	2/50	(4%)	
		1/50	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%	Total	4/300	(1.33%)	Mean	1.33%	SD	2.07%
.....														
#All Organs:														
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated														
		26/50	(52%)	22/50	(44%)	25/50	(50%)	12/50	(24%)	10/50	(20%)	14/50	(28%)	
		26/50	(52%)	21/49	(43%)	25/50	(50%)	18/50	(36%)	20/50	(40%)	26/50	(52%)	
Overall Incidence	Total	145/299	(48.49%)	Mean	48.48%	SD	4.03%	Total	100/300	(33.33%)	Mean	33.33%	SD	11.78%
.....														
#All Organs:														
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
#All Organs:														
Mesothelioma: Benign														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

**Vehicle:** AIR

Report Date:10/04/2007

Male										Female					
#All Organs: Mesothelioma: Benign, Malignant, NOS															
		3/50	(6%)	2/50	(4%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	7/299	(2.34%)	Mean	2.34%	SD	2.34%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	
.....															
#All Organs: Mesothelioma: Malignant															
		3/50	(6%)	2/50	(4%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	7/299	(2.34%)	Mean	2.34%	SD	2.34%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
#All Organs: Osteoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
#All Organs: Osteosarcoma															
		0/50	(0%)	1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/49	(2%)	2/50	(4%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	4/299	(1.34%)	Mean	1.34%	SD	1.64%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	
.....															
#All Organs: Osteosarcoma or Osteoma															
		0/50	(0%)	1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/49	(2%)	2/50	(4%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	4/299	(1.34%)	Mean	1.34%	SD	1.64%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

**Route:** INHALATION

**Vehicle:** AIR

Page: 118

Report Date:10/04/2007

Overall Incidence of Adrenal Pheochromocytoma/Paraganglioma													
		Male						Female					
*Adrenal Cortex: Adenoma													
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)
		0/299	(0%)	Mean	0%	SD	0%	2/300	(0.67%)	Mean	0.67%	SD	1.63%
.....													
*Adrenal Cortex: Carcinoma													
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/299	(0%)	Mean	0%	SD	0%	1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....													
*Adrenal Medulla: Ganglioneuroma													
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/299	(0%)	Mean	0%	SD	0%	0/299	(0%)	Mean	0%	SD	0%
.....													
*Adrenal Medulla: Hemangioma													
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/299	(0%)	Mean	0%	SD	0%	0/299	(0%)	Mean	0%	SD	0%
.....													
*Adrenal Medulla: Pheochromocytoma Benign													
Overall Incidence	Total	7/50	(14%)	12/50	(24%)	8/50	(16%)	1/50	(2%)	2/50	(4%)	3/50	(6%)
		8/50	(16%)	8/49	(16%)	5/50	(10%)	1/49	(2%)	1/50	(2%)	2/50	(4%)
		48/299	(16.05%)	Mean	16.05%	SD	4.56%	10/299	(3.34%)	Mean	3.34%	SD	1.63%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 119

Report Date:10/04/2007

Male														Female					
*Adrenal Medulla: Pheochromocytoma Complex																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/49	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%					
.....																			
*Adrenal Medulla: Pheochromocytoma Malignant																			
		1/50	(2%)	1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)				
		2/50	(4%)	3/49	(6%)	1/50	(2%)			0/49	(0%)	0/50	(0%)	1/50	(2%)				
Overall Incidence	Total	8/299	(2.68%)	Mean	2.69%	SD	2.11%	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%					
.....																			
*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS																			
		7/50	(14%)	13/50	(26%)	8/50	(16%)			3/50	(6%)	2/50	(4%)	3/50	(6%)				
		10/50	(20%)	10/49	(20%)	6/50	(12%)			1/49	(2%)	1/50	(2%)	3/50	(6%)				
Overall Incidence	Total	54/299	(18.06%)	Mean	18.07%	SD	5.09%	Total	13/299	(4.35%)	Mean	4.34%	SD	1.96%					
.....																			
#Blood Vessel: Osteosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
#Bone: Chondrosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 120

Report Date:10/04/2007

Male														Female					
#Bone:																			
Chondrosarcoma or Chondroma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
#Bone:																			
Chordoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	1/49	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	1/299	(0.33%)	Mean	0.34%	SD	0.83%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
#Bone:																			
Osteoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
#Bone:																			
Osteosarcoma																			
		0/50	(0%)	1/50	(2%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	1/49	(2%)	2/50	(4%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	4/299	(1.34%)	Mean	1.34%	SD	1.64%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%					
.....																			
#Bone:																			
Osteosarcoma or Osteoma																			
		0/50	(0%)	1/50	(2%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	1/49	(2%)	2/50	(4%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	4/299	(1.34%)	Mean	1.34%	SD	1.64%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied



**Length of Study:** CHRONIC

**Vehicle:** AIR

Report Date:10/04/2007

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

**Route:** INHALATION

**Vehicle:** AIR

Page: 122

Report Date:10/04/2007

Male								Female							
*Brain: Meningioma Malignant															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)	
Overall Incidence	Total	0/298	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%	
.....															
*Brain: Meningioma: Benign, Malignant, NOS															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)	
Overall Incidence	Total	0/298	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%	
.....															
*Brain: Oligodendroglioma Benign															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)	
Overall Incidence	Total	0/298	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%	
.....															
*Brain: Oligodendroglioma Malignant															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)	
Overall Incidence	Total	0/298	(0%)	Mean	0%	SD	0%	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	
.....															
*Brain: Oligodendroglioma, Glioma, or Astrocytoma															
		0/50	(0%)	0/49	(0%)	0/50	(0%)		2/50	(4%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	1/50	(2%)		2/50	(4%)	0/50	(0%)	0/49	(0%)	
Overall Incidence	Total	1/298	(0.34%)	Mean	0.33%	SD	0.82%	Total	4/299	(1.34%)	Mean	1.33%	SD	2.07%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 123

Report Date:10/04/2007

Male														Female					
*Clitoral/Preputial Gland: Adenoma																			
		0/50	(0%)	0/48	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	3/49	(6%)	0/50	(0%)		0/50	(0%)	4/50	(8%)	0/49	(0%)					
Overall Incidence	Total	3/297	(1.01%)	Mean	1.02%	SD	2.5%	Total	5/299	(1.67%)	Mean	1.67%	SD	3.2%					
.....																			
*Clitoral/Preputial Gland: Carcinoma																			
		0/50	(0%)	0/48	(0%)	1/50	(2%)		2/50	(4%)	0/50	(0%)	1/50	(2%)					
		2/50	(4%)	0/49	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	1/49	(2%)					
Overall Incidence	Total	3/297	(1.01%)	Mean	1%	SD	1.67%	Total	5/299	(1.67%)	Mean	1.67%	SD	1.51%					
.....																			
*Clitoral/Preputial Gland: Carcinoma or Adenoma																			
		0/50	(0%)	0/48	(0%)	1/50	(2%)		3/50	(6%)	0/50	(0%)	1/50	(2%)					
		2/50	(4%)	3/49	(6%)	0/50	(0%)		1/50	(2%)	4/50	(8%)	1/49	(2%)					
Overall Incidence	Total	6/297	(2.02%)	Mean	2.02%	SD	2.57%	Total	10/299	(3.34%)	Mean	3.34%	SD	3.01%					
.....																			
*Clitoral/Preputial Gland: Fibrosarcoma																			
		0/50	(0%)	0/48	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	0/297	(0%)	Mean	0%	SD	0%	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%					
.....																			
*Clitoral/Preputial Gland: Squamous Cell Papilloma																			
		0/50	(0%)	0/48	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	0/297	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

**Route:** INHALATION

**Vehicle:** AIR

Page: 124

**Report Date:**10/04/2007

Male														Female					
#Ear:																			
Neural Crest Tumor																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	1/49	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	1/299	(0.33%)	Mean	0.34%	SD	0.83%	Total	0/300	(0%)	Mean	0%	SD	0%					
#Esophagus:																			
Fibrosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%					
#Eye:																			
Amelanotic Melanoma, Benign																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
#Eye:																			
Melanoma Benign																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
#Eye:																			
Schwannoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

## Vehicle: AIR

Report Date:10/04/2007

Male								Female							
#Harderian Gland: Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
#Harderian Gland: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
#Harderian Gland: Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
*Heart: Schwannoma Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/299	(0.33%)	Mean	0.34%	SD	0.83%	Total	0/299	(0%)	Mean	0%	SD	0%	
*Heart: Schwannoma Malignant															
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/299	(0%)	Mean	0%	SD	0%	

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** AIR

**Report Date:**10/04/2007

Male										Female					
#Intestine Large: Colon/Rectum: Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%
.....															
#Intestine Large: Colon/Rectum: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%
.....															
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%
.....															
#Intestine Large: Colon/Rectum: Leiomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%
.....															
#Intestine Small: Duodenum: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

**Route:** INHALATION

**Vehicle:** AIR

Page: 127

Report Date:10/04/2007

Male										Female										
#Intestine Small: Duodenum: Leiomyoma																				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%			Total	0/300	(0%)	Mean	0%	SD	0%				
#Intestine Small: Jejunum: Leiomyoma																				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%			Total	0/300	(0%)	Mean	0%	SD	0%				
#Intestine Small: Jejunum: Leiomyosarcoma																				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%			Total	0/300	(0%)	Mean	0%	SD	0%				
#Intestine Small: Site Unspecified: Carcinoma																				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%			Total	0/300	(0%)	Mean	0%	SD	0%				
#Intestine Small: Site Unspecified: Carcinoma or Adenoma																				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%			Total	0/300	(0%)	Mean	0%	SD	0%				

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 128

Report Date:10/04/2007

Male														Female					
#Intestine Small: Site Unspecified: Leiomyoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
#Intestine Small: Site Unspecified: Leiomyosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
*Islets, Pancreatic: Adenoma																			
		1/50	(2%)	5/50	(10%)	3/50	(6%)		1/50	(2%)	1/50	(2%)	0/50	(0%)					
		3/50	(6%)	4/49	(8%)	3/50	(6%)		3/50	(6%)	1/50	(2%)	1/49	(2%)					
Overall Incidence	Total	19/299	(6.35%)	Mean	6.36%	SD	2.68%	Total	7/299	(2.34%)	Mean	2.34%	SD	1.97%					
.....																			
*Islets, Pancreatic: Carcinoma																			
		2/50	(4%)	1/50	(2%)	4/50	(8%)		1/50	(2%)	0/50	(0%)	0/50	(0%)					
		1/50	(2%)	5/49	(10%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	14/299	(4.68%)	Mean	4.7%	SD	3.56%	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%					
.....																			
*Islets, Pancreatic: Carcinoma or Adenoma																			
		3/50	(6%)	6/50	(12%)	7/50	(14%)		2/50	(4%)	1/50	(2%)	0/50	(0%)					
		4/50	(8%)	9/49	(18%)	4/50	(8%)		3/50	(6%)	1/50	(2%)	1/49	(2%)					
Overall Incidence	Total	33/299	(11.04%)	Mean	11.06%	SD	4.63%	Total	8/299	(2.68%)	Mean	2.67%	SD	2.06%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied



**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

**Route:** INHALATION

**Vehicle:** AIR

Page: 129

Report Date:10/04/2007

Male														Female					
*Kidney: Pelvis and Transitional Epithelium: Carcinoma																			
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/49	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/298	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma																			
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/49	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/298	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Pelvis and Transitional Epithelium: Papilloma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/49	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/298	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Renal Tubule: Adenoma																			
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/49	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/298	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Renal Tubule: Carcinoma																			
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	1/50	(2%)		0/49	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%	Total	0/298	(0%)	Mean	0%	SD	0%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

## Vehicle: AIR

Report Date:10/04/2007

Male										Female					
*Kidney: Renal Tubule: Carcinoma or Adenoma															
		2/50	(4%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	1/50	(2%)			0/49	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	3/299	(1%)	Mean	1%	SD	1.67%	Total		0/298	(0%)	Mean	0%	SD	0%
.....															
*Kidney: Renal Tubule: Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/49	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/298	(0%)	Mean	0%	SD	0%
.....															
*Kidney: Renal Tubule: Lipoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/49	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total		0/298	(0%)	Mean	0%	SD	0%
.....															
*Kidney: Renal Tubule: Liposarcoma															
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/49	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total		0/298	(0%)	Mean	0%	SD	0%
.....															
*Kidney: Renal Tubule: Mesenchymal Tumor Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/49	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/298	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

**Vehicle:** AIR

Report Date:10/04/2007

Male												Female											
<b>*Kidney: Renal Tubule: Nephroblastoma</b>																							
		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)	
		0/50 (0%)		0/49 (0%)		0/50 (0%)				0/49 (0%)		0/50 (0%)		0/50 (0%)		0/49 (0%)				0/49 (0%)		0/50 (0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%		Total	0/298	(0%)	Mean	0%	SD	0%								
<b>*Kidney: Renal Tubule: Sarcoma</b>																							
		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)	
		0/50 (0%)		0/49 (0%)		0/50 (0%)				0/49 (0%)		0/50 (0%)		0/50 (0%)		0/49 (0%)				0/49 (0%)		0/50 (0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%		Total	0/298	(0%)	Mean	0%	SD	0%								
<b>*Liver: Cholangiocarcinoma</b>																							
		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)	
		0/50 (0%)		0/49 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/49 (0%)				0/49 (0%)		0/50 (0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%		Total	0/299	(0%)	Mean	0%	SD	0%								
<b>*Liver: Cholangioma</b>																							
		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)	
		0/50 (0%)		0/49 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/49 (0%)				0/49 (0%)		0/50 (0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%		Total	0/299	(0%)	Mean	0%	SD	0%								
<b>*Liver: Hemangiosarcoma</b>																							
		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)	
		0/50 (0%)		0/49 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/49 (0%)				0/49 (0%)		0/50 (0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%		Total	0/299	(0%)	Mean	0%	SD	0%								

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 132

Report Date:10/04/2007

Male														Female					
<hr/>																			
<b>*Liver:</b>																			
<b>Hepatocellular Adenoma</b>																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)				
<b>Overall Incidence</b>	<b>Total</b>	1/299	(0.33%)	Mean	0.33%	SD	0.82%	<b>Total</b>		0/299	(0%)	Mean	0%	SD	0%				
<hr/>																			
<b>*Liver:</b>																			
<b>Hepatocellular Carcinoma</b>																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)				
<b>Overall Incidence</b>	<b>Total</b>	1/299	(0.33%)	Mean	0.34%	SD	0.83%	<b>Total</b>		0/299	(0%)	Mean	0%	SD	0%				
<hr/>																			
<b>*Liver:</b>																			
<b>Hepatocellular Carcinoma or Hepatoblastoma</b>																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)				
<b>Overall Incidence</b>	<b>Total</b>	1/299	(0.33%)	Mean	0.34%	SD	0.83%	<b>Total</b>		0/299	(0%)	Mean	0%	SD	0%				
<hr/>																			
<b>*Liver:</b>																			
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)				
<b>Overall Incidence</b>	<b>Total</b>	2/299	(0.67%)	Mean	0.67%	SD	1.04%	<b>Total</b>		0/299	(0%)	Mean	0%	SD	0%				
<hr/>																			
<b>*Liver:</b>																			
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)				
<b>Overall Incidence</b>	<b>Total</b>	2/299	(0.67%)	Mean	0.67%	SD	1.04%	<b>Total</b>		0/299	(0%)	Mean	0%	SD	0%				
<hr/>																			

#: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: INHALATION  
Vehicle: AIR

		Male						Female						
*Lung:														
Alveolar/Bronchiolar Adenoma		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)	1/49	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	
Overall Incidence	Total	3/299	(1%)	Mean	1.01%	SD	1.1%	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%
.....														
*Lung:														
Alveolar/Bronchiolar Carcinoma		1/50	(2%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/49	(0%)	
Overall Incidence	Total	3/299	(1%)	Mean	1%	SD	1.1%	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%
.....														
*Lung:														
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma		2/50	(4%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)	1/49	(2%)	2/50	(4%)	0/50	(0%)	1/50	(2%)	0/49	(0%)	
Overall Incidence	Total	6/299	(2.01%)	Mean	2.01%	SD	1.79%	Total	3/299	(1%)	Mean	1%	SD	1.1%
.....														
*Lung:														
Hemangiosarcoma		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%
.....														
*Lung:														
Sarcoma		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 134

Report Date:10/04/2007

Male														Female					
*Lung: Squamous Cell Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		1/50	(2%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/299	(0%)	Mean	0%	SD	0%					
.....																			
#Lymph Node, Mesenteric: Sarcoma																			
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
#Mammary Gland: Adenoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	2/49	(4%)	0/50	(0%)		0/50	(0%)	3/50	(6%)	0/50	(0%)					
Overall Incidence	Total	2/299	(0.67%)	Mean	0.68%	SD	1.67%	Total	3/300	(1%)	Mean	1%	SD	2.45%					
.....																			
#Mammary Gland: Carcinoma																			
		2/50	(4%)	1/50	(2%)	2/50	(4%)		10/50	(20%)	3/50	(6%)	5/50	(10%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		3/50	(6%)	7/50	(14%)	4/50	(8%)					
Overall Incidence	Total	5/299	(1.67%)	Mean	1.67%	SD	1.97%	Total	32/300	(10.67%)	Mean	10.67%	SD	5.47%					
.....																			
#Mammary Gland: Carcinoma or Adenoma																			
		2/50	(4%)	1/50	(2%)	2/50	(4%)		10/50	(20%)	3/50	(6%)	5/50	(10%)					
		0/50	(0%)	2/49	(4%)	0/50	(0%)		3/50	(6%)	10/50	(20%)	4/50	(8%)					
Overall Incidence	Total	7/299	(2.34%)	Mean	2.35%	SD	1.98%	Total	35/300	(11.67%)	Mean	11.67%	SD	6.62%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 135

Report Date:10/04/2007

		Male						Female						
#Mammary Gland: Fibroadenoma														
		0/50	(0%)	1/50	(2%)	2/50	(4%)	24/50	(48%)	20/50	(40%)	22/50	(44%)	
		1/50	(2%)	1/49	(2%)	3/50	(6%)	22/50	(44%)	26/50	(52%)	19/50	(38%)	
Overall Incidence	Total	8/299	(2.68%)	Mean	2.67%	SD	2.06%	Total	133/300	(44.33%)	Mean	44.33%	SD	5.13%
.....														
#Mammary Gland: Fibroma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma														
		0/50	(0%)	1/50	(2%)	2/50	(4%)	24/50	(48%)	20/50	(40%)	22/50	(44%)	
		1/50	(2%)	3/49	(6%)	3/50	(6%)	22/50	(44%)	28/50	(56%)	19/50	(38%)	
Overall Incidence	Total	10/299	(3.34%)	Mean	3.35%	SD	2.45%	Total	135/300	(45%)	Mean	45%	SD	6.42%
.....														
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma														
		2/50	(4%)	1/50	(2%)	4/50	(8%)	31/50	(62%)	22/50	(44%)	26/50	(52%)	
		1/50	(2%)	3/49	(6%)	3/50	(6%)	24/50	(48%)	31/50	(62%)	23/50	(46%)	
Overall Incidence	Total	14/299	(4.68%)	Mean	4.69%	SD	2.44%	Total	157/300	(52.33%)	Mean	52.33%	SD	7.94%
.....														
#Mesentery: Fibrosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 136

Report Date:10/04/2007

		Male						Female						
#Mesentery:														
Hemangiosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
#Mesentery:														
Osteosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
#Mesentery:														
Rhabdomyosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
*Nose:														
Adenoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	1/50	(2%)	0/49	(0%)	0/49	(0%)	0/49	(0%)	
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/297	(0%)	Mean	0%	SD	0%
.....														
*Nose:														
Chondroma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)	0/49	(0%)	0/49	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/297	(0.34%)	Mean	0.33%	SD	0.82%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied



Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 137

Report Date:10/04/2007

Male												Female					
*Nose:																	
Sarcoma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/49	(0%)	0/49	(0%)	0/49	(0%)			
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/297	(0%)	Mean	0%	SD	0%			
.....																	
*Nose:																	
Squamous Cell Carcinoma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/49	(0%)	0/49	(0%)	0/49	(0%)			
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/297	(0%)	Mean	0%	SD	0%			
.....																	
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):																	
Papilloma Squamous or Papilloma																	
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/300	(0%)	Mean	0%	SD	0%			
.....																	
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):																	
Squamous Cell Carcinoma																	
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/300	(0%)	Mean	0%	SD	0%			
.....																	
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):																	
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma																	
		0/50	(0%)	1/50	(2%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%	Total	0/300	(0%)	Mean	0%	SD	0%			

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** AIR

**Report Date:**10/04/2007

Male										Female					
#Oral Mucosa: Squamous Cell Carcinoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total		0/300	(0%)	Mean	0%	SD	0%
.....															
#Oral Mucosa: Squamous Cell Papilloma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%
.....															
*Ovary: Granulosa Cell Tumor Benign															
										0/50	(0%)	0/50	(0%)	0/50	(0%)
										0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence								Total		0/300	(0%)	Mean	0%	SD	0%
.....															
*Ovary: Granulosa Cell Tumor Malignant															
										0/50	(0%)	0/50	(0%)	0/50	(0%)
										1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence								Total		1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....															
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS															
										0/50	(0%)	0/50	(0%)	0/50	(0%)
										1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence								Total		1/300	(0.33%)	Mean	0.33%	SD	0.82%

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** AIR

**Report Date:**10/04/2007

Male								Female							
*Ovary:															
Granulosa-Theca Tumor Benign															
		0/50 0/50		(0%) (0%)		0/50 0/50		(0%) (0%)		0/50 0/50		(0%) (0%)			
Overall Incidence		Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....															
*Pancreas:															
Adenoma															
		0/50 0/50		(0%) (0%)		0/50 0/49		(0%) (0%)		0/50 0/50		(0%) (0%)			
Overall Incidence		Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%
.....															
*Pancreas:															
Carcinoma															
		0/50 0/50		(0%) (0%)		0/50 0/49		(0%) (0%)		0/50 0/50		(0%) (0%)			
Overall Incidence		Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%
.....															
*Pancreas:															
Carcinoma or Adenoma															
		0/50 0/50		(0%) (0%)		0/50 0/49		(0%) (0%)		0/50 0/50		(0%) (0%)			
Overall Incidence		Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%
.....															
*Pancreas:															
Mixed Tumor Benign															
		0/50 0/50		(0%) (0%)		0/50 2/49		(0%) (4%)		0/50 0/50		(0%) (0%)			
Overall Incidence		Total	2/299	(0.67%)	Mean	0.68%	SD	1.67%	Total	0/299	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
**Route:** INHALATION  
**Vehicle:** AIR

Page: 140

Report Date:10/04/2007

Male														Female					
*Parathyroid Gland: Adenoma																			
		0/45	(0%)	0/46	(0%)	0/49	(0%)		0/49	(0%)	0/49	(0%)	0/46	(0%)					
		0/47	(0%)	0/47	(0%)	0/50	(0%)		0/43	(0%)	0/49	(0%)	0/49	(0%)					
Overall Incidence	Total	0/284	(0%)	Mean	0%	SD	0%	Total	0/285	(0%)	Mean	0%	SD	0%					
.....																			
#Peripheral Nerve: Schwannoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
#Peripheral Nerve: Schwannoma: Benign, Malignant, NOS																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma																			
		36/50	(72%)	36/50	(72%)	35/50	(70%)		35/50	(70%)	37/50	(74%)	24/49	(49%)					
		34/49	(69%)	36/49	(73%)	38/50	(76%)		35/50	(70%)	30/50	(60%)	27/49	(55%)					
Overall Incidence	Total	215/298	(72.15%)	Mean	72.14%	SD	2.4%	Total	188/298	(63.09%)	Mean	63.01%	SD	9.87%					
.....																			
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/49	(0%)					
		0/49	(0%)	0/49	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	1/298	(0.34%)	Mean	0.33%	SD	0.82%	Total	1/298	(0.34%)	Mean	0.33%	SD	0.82%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: INHALATION  
Vehicle: AIR

Page: 141  
Report Date:10/04/2007

		Male						Female						
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma														
		36/50	(72%)	36/50	(72%)	35/50	(70%)		36/50	(72%)	37/50	(74%)	24/49	(49%)
		34/49	(69%)	36/49	(73%)	39/50	(78%)		35/50	(70%)	30/50	(60%)	27/49	(55%)
Overall Incidence	Total	216/298	(72.48%)	Mean	72.48%	SD	3.09%	Total	189/298	(63.42%)	Mean	63.35%	SD	10.18%
.....														
*Pituitary Gland: Pars Intermedia: Adenoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
		0/49	(0%)	1/49	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/298	(0.34%)	Mean	0.34%	SD	0.83%	Total	0/298	(0%)	Mean	0%	SD	0%
.....														
*Pituitary Gland: Pars Intermedia: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
		0/49	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	0/298	(0%)	Mean	0%	SD	0%	Total	0/298	(0%)	Mean	0%	SD	0%
.....														
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
		0/49	(0%)	1/49	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/298	(0.34%)	Mean	0.34%	SD	0.83%	Total	0/298	(0%)	Mean	0%	SD	0%
.....														
*Prostate: Adenoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/49	(0%)	0/50	(0%)							
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%							

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

**Vehicle:** AIR

Report Date:10/04/2007

Male										Female											
*Prostate: Carcinoma or Adenoma																					
		0/50 (0%)		0/50 (0%)		0/50 (0%)															
		0/50 (0%)		0/49 (0%)		0/50 (0%)															
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%														
.....																					
*Salivary Glands: Sarcoma																					
		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)	
		0/50 (0%)		0/49 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/49 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%							
.....																					
*Salivary Glands: Schwannoma Malignant																					
		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)	
		0/50 (0%)		0/49 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/49 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%							
.....																					
#Skeletal Muscle: Fibrosarcoma																					
		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)	
		0/50 (0%)		0/49 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%							
.....																					
#Skeletal Muscle: Hemangioma																					
		0/50 (0%)		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)	
		0/50 (0%)		0/49 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%							

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

## Vehicle: AIR

Report Date:10/04/2007

Male								Female							
#Skeletal Muscle: Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Lipoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Rhabdomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	
.....															
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	
.....															
#Skeletal Muscle: Sarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: INHALATION  
Vehicle: AIR

Page: 144  
Report Date:10/04/2007

Male										Female											
#Skin:																					
Basal Cell Adenoma																					
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		1/50	(2%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	3/299	(1%)	Mean	1.01%	SD	1.1%	Total		0/300	(0%)	Mean	0%	SD	0%						
#Skin:																					
Basal Cell Adenoma or Basosquamous Tumor Benign																					
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		1/50	(2%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	3/299	(1%)	Mean	1.01%	SD	1.1%	Total		0/300	(0%)	Mean	0%	SD	0%						
#Skin:																					
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma																					
		1/50	(2%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		1/50	(2%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	4/299	(1.34%)	Mean	1.34%	SD	1.04%	Total		1/300	(0.33%)	Mean	0.33%	SD	0.82%						
#Skin:																					
Basal Cell Carcinoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%						
#Skin:																					
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%						

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 145

Report Date:10/04/2007

Male										Female					
#Skin:															
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma															
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	4/299	(1.34%)	Mean	1.34%	SD	1.04%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	
.....															
#Skin:															
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma															
		5/50	(10%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		2/50	(4%)	5/49	(10%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	1/50	(2%)		
Overall Incidence	Total	15/299	(5.02%)	Mean	5.03%	SD	4.2%	Total	2/300	(0.67%)	Mean	0.67%	SD	1.03%	
.....															
#Skin:															
Fibroma															
		3/50	(6%)	5/50	(10%)	4/50	(8%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		4/50	(8%)	3/49	(6%)	2/50	(4%)	1/50	(2%)	1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	21/299	(7.02%)	Mean	7.02%	SD	2.09%	Total	2/300	(0.67%)	Mean	0.67%	SD	1.03%	
.....															
#Skin:															
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma															
		3/50	(6%)	6/50	(12%)	5/50	(10%)	1/50	(2%)	0/50	(0%)	0/50	(0%)		
		5/50	(10%)	4/49	(8%)	3/50	(6%)	1/50	(2%)	2/50	(4%)	0/50	(0%)		
Overall Incidence	Total	26/299	(8.7%)	Mean	8.69%	SD	2.41%	Total	4/300	(1.33%)	Mean	1.33%	SD	1.63%	
.....															
#Skin:															
Fibrosarcoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	1/49	(2%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	4/299	(1.34%)	Mean	1.34%	SD	1.04%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 146

Report Date:10/04/2007

Male												Female					
#Skin:																	
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma																	
		0/50	(0%)	1/50	(2%)	1/50	(2%)			1/50	(2%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	1/49	(2%)	1/50	(2%)			0/50	(0%)	1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	5/299	(1.67%)	Mean	1.67%	SD	0.82%	Total		2/300	(0.67%)	Mean	0.67%	SD	1.03%		
.....																	
#Skin:																	
Fibrous Histiocytoma																	
		0/50	(0%)	1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total		1/300	(0.33%)	Mean	0.33%	SD	0.82%		
.....																	
#Skin:																	
Hemangioma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%		
.....																	
#Skin:																	
Hemangiosarcoma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%		
.....																	
#Skin:																	
Keratoacanthoma																	
		4/50	(8%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	4/49	(8%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)		
Overall Incidence	Total	9/299	(3.01%)	Mean	3.03%	SD	3.99%	Total		1/300	(0.33%)	Mean	0.33%	SD	0.82%		

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

**Route:** INHALATION

**Vehicle:** AIR

Page: 147

**Report Date:**10/04/2007

Male										Female					
#Skin: Lipoma															
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	2/49	(4%)	2/50	(4%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	6/299	(2.01%)	Mean	2.01%	SD	1.81%		Total	0/300	(0%)	Mean	0%	SD	0%
.....															
#Skin: Liposarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%		Total	0/300	(0%)	Mean	0%	SD	0%
.....															
#Skin: Neural Crest Tumor															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%		Total	0/300	(0%)	Mean	0%	SD	0%
.....															
#Skin: Neurofibroma or Schwannoma benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%		Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....															
#Skin: Neurofibrosarcoma or Schwannoma (malignant or NOS)															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299	(0.33%)	Mean	0.34%	SD	0.83%		Total	0/300	(0%)	Mean	0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: INHALATION  
Vehicle: AIR

Male										Female											
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)				
Overall Incidence	Total	1/299	(0.33%)	Mean	0.34%	SD	0.83%	Total		1/300	(0.33%)	Mean	0.33%	SD	0.82%						
#Skin: Osteosarcoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%						
#Skin: Sarcoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		0/300	(0%)	Mean	0%	SD	0%						
#Skin: Schwannoma Benign																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total		1/300	(0.33%)	Mean	0.33%	SD	0.82%						
#Skin: Schwannoma Malignant																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/299	(0.33%)	Mean	0.34%	SD	0.83%	Total		0/300	(0%)	Mean	0%	SD	0%						

#: Denominator is number of animals with tissues examined microscopically  
\*: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 149

Report Date:10/04/2007

Male												Female					
#Skin:																	
Squamous Cell Carcinoma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%			
.....																	
#Skin:																	
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%			
.....																	
#Skin:																	
Squamous Cell Papilloma																	
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%	Total	0/300	(0%)	Mean	0%	SD	0%			
.....																	
#Skin:																	
Squamous Cell Papilloma or Papilloma																	
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%	Total	0/300	(0%)	Mean	0%	SD	0%			
.....																	
#Skin:																	
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma																	
		4/50	(8%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	4/49	(8%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	1/50	(2%)		
Overall Incidence	Total	11/299	(3.68%)	Mean	3.69%	SD	3.49%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%			

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

**Vehicle:** AIR

Report Date:10/04/2007

Male												Female												
#Skin:																								
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma																								
		4/50	(8%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)			
		1/50	(2%)	4/49	(8%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)			
Overall Incidence	Total	11/299	(3.68%)	Mean	3.69%	SD	3.49%			Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%								
#Skin:																								
Trichoepithelioma																								
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)			
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)			
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%			Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%								
#Skin: Sebaceous Gland:																								
Adenoma																								
		1/50	(2%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)			
		0/50	(0%)	1/49	(2%)	3/50	(6%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)			
Overall Incidence	Total	6/299	(2.01%)	Mean	2.01%	SD	2.19%			Total	0/300	(0%)	Mean	0%	SD	0%								
#Skin: Sebaceous Gland:																								
Carcinoma																								
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)			
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)			
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%			Total	0/300	(0%)	Mean	0%	SD	0%								
#Skin: Sebaceous Gland:																								
Carcinoma or Adenoma																								
		1/50	(2%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)			
		0/50	(0%)	1/49	(2%)	3/50	(6%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)			
Overall Incidence	Total	6/299	(2.01%)	Mean	2.01%	SD	2.19%			Total	0/300	(0%)	Mean	0%	SD	0%								

#: Denominator is number of animals necropsied

Version: Oct2007  
 Contract/Lab: All Laboratories  
 Species: RATS  
 Strain: F344  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route:** INHALATION  
**Vehicle:** AIR

**Page: 151**  
**Report Date:**10/04/2007

Male														Female					
#Spinal Cord:																			
Astrocytoma Benign																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
#Spleen:																			
Fibrosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%					
.....																			
#Spleen:																			
Hemangioma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)				
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/299	(0%)	Mean	0%	SD	0%					
.....																			
#Spleen:																			
Hemangiosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)	0/49	(0%)				
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%					
.....																			
#Spleen:																			
Leiomyosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		1/50	(2%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)				
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/299	(0%)	Mean	0%	SD	0%					

\*: Denominator is number of animals with tissues examined microscopically  
 #: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

**Vehicle:** AIR

**Report Date:**10/04/2007

Male												Female					
#Stomach, Forestomach: Leiomyosarcoma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%			
.....																	
#Stomach, Forestomach: Schwannoma Malignant																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%			
.....																	
#Stomach, Forestomach: Squamous Cell Carcinoma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%			
.....																	
#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%			
.....																	
#Stomach, Forestomach: Squamous Cell Papilloma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%			

#: Denominator is number of animals necropsied



Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 153

Report Date:10/04/2007

		Male						Female						
#Stomach, Glandular: Leiomyosarcoma														
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Glandular: Lipoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
*Testes: Adenoma														
		36/50	(72%)	38/50	(76%)	42/50	(84%)							
		33/50	(66%)	38/49	(78%)	41/50	(82%)							
Overall Incidence	Total	228/299	(76.25%)	Mean	76.26%	SD	6.6%							
.....														
*Thymus: Sarcoma														
		0/49	(0%)	0/48	(0%)	0/49	(0%)		0/48	(0%)	0/45	(0%)	0/47	(0%)
		0/42	(0%)	0/47	(0%)	0/49	(0%)		0/50	(0%)	0/46	(0%)	0/47	(0%)
Overall Incidence	Total	0/284	(0%)	Mean	0%	SD	0%	Total	0/283	(0%)	Mean	0%	SD	0%
.....														
*Thymus: Thymoma Benign														
		0/49	(0%)	0/48	(0%)	0/49	(0%)		0/48	(0%)	0/45	(0%)	0/47	(0%)
		0/42	(0%)	1/47	(2%)	0/49	(0%)		1/50	(2%)	0/46	(0%)	0/47	(0%)
Overall Incidence	Total	1/284	(0.35%)	Mean	0.35%	SD	0.87%	Total	1/283	(0.35%)	Mean	0.33%	SD	0.82%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 154

Report Date:10/04/2007

		Male						Female						
*Thymus:														
Thymoma Malignant		0/49	(0%)	0/48	(0%)	0/49	(0%)	0/48	(0%)	0/45	(0%)	0/47	(0%)	
		0/42	(0%)	0/47	(0%)	1/49	(2%)	0/50	(0%)	0/46	(0%)	0/47	(0%)	
Overall Incidence	Total	1/284	(0.35%)	Mean	0.34%	SD	0.83%	Total	0/283	(0%)	Mean	0%	SD	0%
.....														
*Thymus:														
Thymoma: Benign, Malignant, NOS		0/49	(0%)	0/48	(0%)	0/49	(0%)	0/48	(0%)	0/45	(0%)	0/47	(0%)	
		0/42	(0%)	1/47	(2%)	1/49	(2%)	1/50	(2%)	0/46	(0%)	0/47	(0%)	
Overall Incidence	Total	2/284	(0.7%)	Mean	0.69%	SD	1.08%	Total	1/283	(0.35%)	Mean	0.33%	SD	0.82%
.....														
*Thyroid Gland: C-Cell:														
Adenoma		3/50	(6%)	2/50	(4%)	1/50	(2%)	3/50	(6%)	0/50	(0%)	3/50	(6%)	
		3/49	(6%)	4/49	(8%)	7/50	(14%)	2/50	(4%)	3/50	(6%)	3/49	(6%)	
Overall Incidence	Total	20/298	(6.71%)	Mean	6.71%	SD	4.14%	Total	14/299	(4.68%)	Mean	4.69%	SD	2.44%
.....														
*Thyroid Gland: C-Cell:														
Carcinoma		1/50	(2%)	1/50	(2%)	2/50	(4%)	0/50	(0%)	1/50	(2%)	1/50	(2%)	
		0/49	(0%)	3/49	(6%)	2/50	(4%)	1/50	(2%)	2/50	(4%)	1/49	(2%)	
Overall Incidence	Total	9/298	(3.02%)	Mean	3.02%	SD	2.13%	Total	6/299	(2.01%)	Mean	2.01%	SD	1.27%
.....														
*Thyroid Gland: C-Cell:														
Carcinoma or Adenoma		3/50	(6%)	3/50	(6%)	3/50	(6%)	3/50	(6%)	1/50	(2%)	4/50	(8%)	
		3/49	(6%)	7/49	(14%)	9/50	(18%)	3/50	(6%)	5/50	(10%)	4/49	(8%)	
Overall Incidence	Total	28/298	(9.4%)	Mean	9.4%	SD	5.35%	Total	20/299	(6.69%)	Mean	6.69%	SD	2.75%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 155

Report Date:10/04/2007

Male														Female					
*Thyroid Gland: Follicular Cell: Adenoma																			
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	1/50	(2%)					
		0/49	(0%)	1/49	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	2/298	(0.67%)	Mean	0.67%	SD	1.04%	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%					
.....																			
*Thyroid Gland: Follicular Cell: Carcinoma																			
		2/50	(4%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/49	(0%)	0/49	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	4/298	(1.34%)	Mean	1.33%	SD	1.63%	Total	0/299	(0%)	Mean	0%	SD	0%					
.....																			
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma																			
		2/50	(4%)	1/50	(2%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	1/50	(2%)					
		0/49	(0%)	1/49	(2%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/49	(0%)					
Overall Incidence	Total	6/298	(2.01%)	Mean	2.01%	SD	1.27%	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%					
.....																			
#Tissue NOS: Fibrosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					
.....																			
#Tissue NOS: Leiomyoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** AIR

**Report Date:**10/04/2007

Male								Female							
#Tissue NOS: Lipoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/49	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299	(0.33%)	Mean	0.34%	SD	0.83%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
#Tissue NOS: Paraganglioma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
#Tissue NOS: Sarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
#Tissue NOS: Schwannoma Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
#Tongue: Liposarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: INHALATION

Vehicle: AIR

Page: 157

Report Date:10/04/2007

Male								Female							
#Tongue:															
Squamous Cell Carcinoma or Papilloma Squamous															
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
#Tongue:															
Squamous Cell Papilloma															
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
#Tooth:															
Odontoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
.....															
*Urinary Bladder:															
Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/49	(0%)	0/49	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/298	(0%)	Mean	0%	SD	0%	
.....															
*Urinary Bladder:															
Carcinoma or Papilloma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/49	(0%)	1/49	(2%)	
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	1/298	(0.34%)	Mean	0.34%	SD	0.83%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

## Vehicle: AIR

Report Date:10/04/2007

		Male						Female						
*Urinary Bladder: Leiomyosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/49	(0%)	1/49	(2%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	2/298	(0.67%)	Mean	0.67%	SD	1.04%
.....														
*Urinary Bladder: Papilloma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/50	(0%)		0/50	(0%)	0/49	(0%)	1/49	(2%)
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	1/298	(0.34%)	Mean	0.34%	SD	0.83%
.....														
#Uterus: Adenoma														
									0/50	(0%)	1/50	(2%)	0/50	(0%)
									0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence								Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....														
#Uterus: Carcinoma														
									0/50	(0%)	0/50	(0%)	0/50	(0%)
									0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence								Total	0/300	(0%)	Mean	0%	SD	0%
.....														
#Uterus: Deciduoma Benign														
									0/50	(0%)	0/50	(0%)	0/50	(0%)
									0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence								Total	0/300	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: INHALATION  
Vehicle: AIR

Male			Female				
#Uterus:							
Hemangioma							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....							
#Uterus:							
Hemangiosarcoma							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....							
#Uterus:							
Leiomyoma							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%
.....							
#Uterus:							
Polyp Stromal							
		13/50	(26%)	9/50	(18%)	12/50	(24%)
		6/50	(12%)	12/50	(24%)	10/50	(20%)
Overall Incidence	Total	62/300	(20.67%)	Mean	20.67%	SD	5.16%
.....							
#Uterus:							
Sarcoma Stromal							
		1/50	(2%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	3/300	(1%)	Mean	1%	SD	1.1%
.....							

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** AIR

**Report Date:**10/04/2007

Male										Female									
#Uterus:																			
Sarcoma Stromal or Polyp Stromal																			
										14/50	(28%)	9/50	(18%)	13/50	(26%)				
										6/50	(12%)	12/50	(24%)	11/50	(22%)				
Overall Incidence										Total	65/300	(21.67%)	Mean	21.67%	SD	5.85%			
.....																			
#Uterus:																			
Schwannoma Malignant																			
										0/50	(0%)	0/50	(0%)	0/50	(0%)				
										0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence										Total	0/300	(0%)	Mean	0%	SD	0%			
.....																			
#Vagina:																			
Polyp																			
										2/50	(4%)	0/50	(0%)	0/50	(0%)				
										0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence										Total	2/300	(0.67%)	Mean	0.67%	SD	1.63%			
.....																			
#Vagina:																			
Sarcoma																			
										0/50	(0%)	0/50	(0%)	1/50	(2%)				
										0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence										Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%			
.....																			
#Zymbal's Gland:																			
Adenoma																			
										0/50	(0%)	0/50	(0%)	0/50	(0%)				
										0/50	(0%)	0/49	(0%)	0/50	(0%)				
Overall Incidence										Total	0/299	(0%)	Mean	0%	SD	0%			
										Total	0/300	(0%)	Mean	0%	SD	0%			

#: Denominator is number of animals necropsied



**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** AIR

**Report Date:**10/04/2007

Male														Female					
#Zymbal's Gland: Carcinoma																			
		1/50	(2%)	0/50	(0%)	1/50	(2%)			1/50	(2%)	1/50	(2%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)				
Overall Incidence	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%	Total	3/300	(1%)	Mean	1%	SD	1.1%					
.....																			
#Zymbal's Gland: Carcinoma or Adenoma																			
		1/50	(2%)	0/50	(0%)	1/50	(2%)			1/50	(2%)	1/50	(2%)	0/50	(0%)				
		0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)				
Overall Incidence	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%	Total	3/300	(1%)	Mean	1%	SD	1.1%					

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

**Toxicology Data Management System**

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 162

Report Date:10/04/2007

**Study Summary**

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Columbus Laboratory	058813803	08/16/99	729	50 (3)	22(681)	501.7	Benzophenone
Southern Research Institute	059902703	08/12/02	729	50 (3)	37(705)	452.8	Chromium picolinate monohydrate
Battelle Columbus Laboratory	050517405	08/05/02	729	50 (3)	33(703)	510.0	Cresols
Southern Research Institute	059201205	07/15/98	729	50 (3)	35(704)	446.9	2-Methylimidazole
Southern Research Institute	059201305	01/20/00	730	50 (3)	31(702)	448.0	4-Methylimidazole
Female							
Battelle Columbus Laboratory	058813803	08/17/99	729	50 (5)	32(688)	348.7	Benzophenone
Southern Research Institute	059902703	08/12/02	733	50 (5)	36(702)	314.7	Chromium picolinate monohydrate
Battelle Columbus Laboratory	050517405	N/A	N/A	0 (0)	0(0)	N/A	Cresols
Southern Research Institute	059201205	07/15/98	734	50 (5)	40(707)	320.6	2-Methylimidazole
Southern Research Institute	059201305	01/20/00	735	50 (5)	40(702)	311.3	4-Methylimidazole

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

# Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 163

Report Date:10/04/2007

Male												Female					
#All Organs: Benign Tumors																	
		49/50	(98%)	49/50	(98%)	50/50	(100%)			42/50	(84%)	45/50	(90%)				
		49/50	(98%)	50/50	(100%)					43/50	(86%)	48/50	(96%)				
Overall Incidence	Total	247/250	(98.8%)	Mean	98.8%	SD	1.1%	Total	178/200	(89%)	Mean	89%	SD	5.29%			
#All Organs: Malignant Tumors																	
		33/50	(66%)	27/50	(54%)	23/50	(46%)			20/50	(40%)	15/50	(30%)				
		22/50	(44%)	22/50	(44%)					19/50	(38%)	19/50	(38%)				
Overall Incidence	Total	127/250	(50.8%)	Mean	50.8%	SD	9.44%	Total	73/200	(36.5%)	Mean	36.5%	SD	4.43%			
#All Organs: Malignant and Benign Tumors																	
		50/50	(100%)	50/50	(100%)	50/50	(100%)			46/50	(92%)	47/50	(94%)				
		50/50	(100%)	50/50	(100%)					45/50	(90%)	48/50	(96%)				
Overall Incidence	Total	250/250	(100%)	Mean	100%	SD	0%	Total	186/200	(93%)	Mean	93%	SD	2.58%			
#All Organs: Hemangioma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%			
#All Organs: Hemangiosarcoma																	
		0/50	(0%)	2/50	(4%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		1/50	(2%)	0/50	(0%)					0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	3/250	(1.2%)	Mean	1.2%	SD	1.79%	Total	0/200	(0%)	Mean	0%	SD	0%			

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 164

Report Date:10/04/2007

		Male						Female						
#All Organs:														
Hemangiosarcoma or Hemangioma														
		0/50	(0%)	2/50	(4%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	3/250	(1.2%)	Mean	1.2%	SD	1.79%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#All Organs:														
Histiocytic Sarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	2/50	(4%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	3/200	(1.5%)	Mean	1.5%	SD	1.91%
.....														
#All Organs:														
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated														
		27/50	(54%)	19/50	(38%)	15/50	(30%)			19/50	(38%)	9/50	(18%)	
		15/50	(30%)	15/50	(30%)					6/50	(12%)	9/50	(18%)	
Overall Incidence	Total	91/250	(36.4%)	Mean	36.4%	SD	10.43%	Total	43/200	(21.5%)	Mean	21.5%	SD	11.36%
.....														
#All Organs:														
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type														
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#All Organs:														
Mesothelioma: Benign														
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 165

Report Date:10/04/2007

		Male				Female			
#All Organs:									
Mesothelioma: Benign, Malignant, NOS									
		2/50	(4%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
		2/50	(4%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	5/250	(2%)	Mean 2%	SD 2%	Total	0/200	(0%)	Mean 0% SD 0%
.....									
#All Organs:									
Mesothelioma: Malignant									
		2/50	(4%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
		2/50	(4%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	5/250	(2%)	Mean 2%	SD 2%	Total	0/200	(0%)	Mean 0% SD 0%
.....									
#All Organs:									
Osteoma									
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		2/50	(4%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	2/250	(0.8%)	Mean 0.8%	SD 1.79%	Total	0/200	(0%)	Mean 0% SD 0%
.....									
#All Organs:									
Osteosarcoma									
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)			1/50	(2%)
Overall Incidence	Total	1/250	(0.4%)	Mean 0.4%	SD 0.89%	Total	1/200	(0.5%)	Mean 0.5% SD 1%
.....									
#All Organs:									
Osteosarcoma or Osteoma									
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		2/50	(4%)	0/50	(0%)			1/50	(2%)
Overall Incidence	Total	3/250	(1.2%)	Mean 1.2%	SD 1.79%	Total	1/200	(0.5%)	Mean 0.5% SD 1%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: FEED

		Male						Female						
<b>*Adrenal Cortex: Adenoma</b>														
		0/50	(0%)	0/50	(0%)	0/50 (0%)		0/50 (0%)		2/50	(4%)			
		0/50	(0%)	1/50	(2%)			5/50 (10%)		1/49	(2%)			
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	8/199	(4.02%)	Mean	4.01%	SD	4.31%
.....														
<b>*Adrenal Cortex: Carcinoma</b>														
		0/50	(0%)	0/50	(0%)	0/50 (0%)		0/50 (0%)		0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50 (0%)		0/49	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/199	(0%)	Mean	0%	SD	0%
.....														
<b>*Adrenal Medulla: Ganglioneuroma</b>														
		0/50	(0%)	0/50	(0%)	0/50 (0%)		0/50 (0%)		0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/49 (0%)		0/48	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/197	(0%)	Mean	0%	SD	0%
.....														
<b>*Adrenal Medulla: Hemangioma</b>														
		0/50	(0%)	0/50	(0%)	0/50 (0%)		0/50 (0%)		0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/49 (0%)		0/48	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/197	(0%)	Mean	0%	SD	0%
.....														
<b>*Adrenal Medulla: Pheochromocytoma Benign</b>														
		8/50	(16%)	8/50	(16%)	8/50 (16%)		0/50 (0%)		1/50	(2%)			
		8/50	(16%)	8/50	(16%)			0/49 (0%)		2/48	(4%)			
Overall Incidence	Total	40/250	(16%)	Mean	16%	SD	0%	Total	3/197	(1.52%)	Mean	1.54%	SD	1.99%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 167

Report Date:10/04/2007

		Male						Female						
*Adrenal Medulla: Pheochromocytoma Complex														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	2/50	(4%)				0/49	(0%)	0/48	(0%)		
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.79%	Total	0/197	(0%)	Mean	0%	SD	0%
.....														
*Adrenal Medulla: Pheochromocytoma Malignant														
		0/50	(0%)	3/50	(6%)	0/50	(0%)		0/50	(0%)	2/50	(4%)		
		0/50	(0%)	0/50	(0%)				0/49	(0%)	1/48	(2%)		
Overall Incidence	Total	3/250	(1.2%)	Mean	1.2%	SD	2.68%	Total	3/197	(1.52%)	Mean	1.52%	SD	1.92%
.....														
*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS														
		8/50	(16%)	11/50	(22%)	8/50	(16%)		0/50	(0%)	3/50	(6%)		
		8/50	(16%)	10/50	(20%)				0/49	(0%)	3/48	(6%)		
Overall Incidence	Total	45/250	(18%)	Mean	18%	SD	2.83%	Total	6/197	(3.05%)	Mean	3.06%	SD	3.54%
.....														
#Blood Vessel: Osteosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Bone: Chondrosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 168

Report Date:10/04/2007

		Male						Female						
#Bone:														
Chondrosarcoma or Chondroma		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)				
		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)				
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Bone:														
Chordoma		1/50 (2%)		0/50 (0%)		1/50 (2%)		0/50 (0%)		0/50 (0%)				
		0/50 (0%)		0/50 (0%)				0/50 (0%)		0/50 (0%)				
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Bone:														
Osteoma		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)				
		2/50 (4%)		0/50 (0%)				0/50 (0%)		0/50 (0%)				
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.79%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Bone:														
Osteosarcoma		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)				
		0/50 (0%)		0/50 (0%)				0/50 (0%)		1/50 (2%)				
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
#Bone:														
Osteosarcoma or Osteoma		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)		0/50 (0%)				
		2/50 (4%)		0/50 (0%)				0/50 (0%)		1/50 (2%)				
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.79%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: FEED

		Male						Female						
*Brain:														
Astrocytoma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Brain:														
Ependymoma Benign														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Brain:														
Glioma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Brain:														
Granular Cell Tumor Benign														
		0/50	(0%)	2/50	(4%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.79%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Brain:														
Medulloblastoma Mal														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle: FEED**

**Report Date:**10/04/2007

Male										Female					
*Brain: Meningioma Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Brain: Meningioma: Benign, Malignant, NOS															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Brain: Oligodendroglioma Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Brain: Oligodendroglioma Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Brain: Oligodendroglioma, Glioma, or Astrocytoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 171

Report Date:10/04/2007

Male												Female			
*Clitoral/Preputial Gland: Adenoma															
		0/50	(0%)	1/50	(2%)	5/50	(10%)		3/50	(6%)	10/50	(20%)			
		0/50	(0%)	2/50	(4%)				5/50	(10%)	8/50	(16%)			
Overall Incidence	Total	8/250	(3.2%)	Mean	3.2%	SD	4.15%	Total	26/200	(13%)	Mean	13%	SD	6.22%	
.....															
*Clitoral/Preputial Gland: Carcinoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)				3/50	(6%)	2/50	(4%)			
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	6/200	(3%)	Mean	3%	SD	2.58%	
.....															
*Clitoral/Preputial Gland: Carcinoma or Adenoma															
		1/50	(2%)	1/50	(2%)	5/50	(10%)		4/50	(8%)	10/50	(20%)			
		0/50	(0%)	2/50	(4%)				8/50	(16%)	10/50	(20%)			
Overall Incidence	Total	9/250	(3.6%)	Mean	3.6%	SD	3.85%	Total	32/200	(16%)	Mean	16%	SD	5.66%	
.....															
*Clitoral/Preputial Gland: Fibrosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Clitoral/Preputial Gland: Squamous Cell Papilloma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)				1/50	(2%)	0/50	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	2/200	(1%)	Mean	1%	SD	1.15%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: FEED

		Male						Female					
#Ear:													
Neural Crest Tumor													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													
#Esophagus:													
Fibrosarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													
#Eye:													
Amelanotic Melanoma, Benign													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													
#Eye:													
Melanoma Benign													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD 1%
.....													
#Eye:													
Schwannoma Malignant													
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 173

Report Date:10/04/2007

		Male						Female					
#Harderian Gland: Adenoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													
#Harderian Gland: Carcinoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													
#Harderian Gland: Carcinoma or Adenoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													
*Heart: Schwannoma Benign													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)				0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD 1%
.....													
*Heart: Schwannoma Malignant													
		1/50	(2%)	1/50	(2%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%	Total	1/200	(0.5%)	Mean	0.5%	SD 1%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: FEED

		Male						Female						
#Intestine Large: Colon/Rectum: Adenoma														
		0/50	(0%)	1/50	(2%)	0/50 (0%)				0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Large: Colon/Rectum: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50 (0%)				0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma														
		0/50	(0%)	1/50	(2%)	0/50 (0%)				0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Large: Colon/Rectum: Leiomyosarcoma														
		0/50	(0%)	0/50	(0%)	0/50 (0%)				0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Duodenum: Carcinoma														
		0/50	(0%)	1/50	(2%)	0/50 (0%)				0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 175

Report Date:10/04/2007

		Male						Female						
#Intestine Small: Duodenum:														
Leiomyoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Jejunum:														
Leiomyoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Jejunum:														
Leiomyosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Site Unspecified:														
Carcinoma														
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Site Unspecified:														
Carcinoma or Adenoma														
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 176

Report Date:10/04/2007

		Male				Female								
#Intestine Small: Site Unspecified:														
Leiomyoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Intestine Small: Site Unspecified:														
Leiomyosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Islets, Pancreatic:														
Adenoma														
		1/50	(2%)	1/50	(2%)	1/49	(2%)		0/50	(0%)	2/49	(4%)		
		0/50	(0%)	3/50	(6%)				0/50	(0%)	0/49	(0%)		
Overall Incidence	Total	6/249	(2.41%)	Mean	2.41%	SD	2.19%	Total	2/198	(1.01%)	Mean	1.02%	SD	2.04%
.....														
*Islets, Pancreatic:														
Carcinoma														
		0/50	(0%)	1/50	(2%)	1/49	(2%)		0/50	(0%)	0/49	(0%)		
		0/50	(0%)	0/50	(0%)				2/50	(4%)	0/49	(0%)		
Overall Incidence	Total	2/249	(0.8%)	Mean	0.81%	SD	1.11%	Total	2/198	(1.01%)	Mean	1%	SD	2%
.....														
*Islets, Pancreatic:														
Carcinoma or Adenoma														
		1/50	(2%)	2/50	(4%)	2/49	(4%)		0/50	(0%)	2/49	(4%)		
		0/50	(0%)	3/50	(6%)				2/50	(4%)	0/49	(0%)		
Overall Incidence	Total	8/249	(3.21%)	Mean	3.22%	SD	2.29%	Total	4/198	(2.02%)	Mean	2.02%	SD	2.33%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied



**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

Route: ORAL

**Vehicle: FEED**

Page: 177

**Report Date:**10/04/2007

Male												Female			
*Kidney: Pelvis and Transitional Epithelium: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/47	(0%)			
		0/49	(0%)	0/48	(0%)				0/50	(0%)	0/48	(0%)			
Overall Incidence	Total	0/247	(0%)	Mean	0%	SD	0%	Total	0/195	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/47	(0%)			
		0/49	(0%)	0/48	(0%)				0/50	(0%)	0/48	(0%)			
Overall Incidence	Total	0/247	(0%)	Mean	0%	SD	0%	Total	0/195	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Pelvis and Transitional Epithelium: Papilloma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/47	(0%)			
		0/49	(0%)	0/48	(0%)				0/50	(0%)	1/48	(2%)			
Overall Incidence	Total	0/247	(0%)	Mean	0%	SD	0%	Total	1/195	(0.51%)	Mean	0.52%	SD	1.04%	
.....															
*Kidney: Renal Tubule: Adenoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/47	(0%)			
		0/49	(0%)	0/48	(0%)				0/50	(0%)	0/48	(0%)			
Overall Incidence	Total	1/247	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/195	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/47	(0%)			
		0/49	(0%)	0/48	(0%)				0/50	(0%)	0/48	(0%)			
Overall Incidence	Total	0/247	(0%)	Mean	0%	SD	0%	Total	0/195	(0%)	Mean	0%	SD	0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 178

Report Date:10/04/2007

Male										Female			
*Kidney: Renal Tubule: Carcinoma or Adenoma													
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/47	(0%)	
		0/49	(0%)	0/48	(0%)				0/50	(0%)	0/48	(0%)	
Overall Incidence	Total	1/247	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/195	(0%)	Mean	0%	SD 0%
.....													
*Kidney: Renal Tubule: Hemangiosarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/47	(0%)	
		0/49	(0%)	0/48	(0%)				0/50	(0%)	0/48	(0%)	
Overall Incidence	Total	0/247	(0%)	Mean	0%	SD	0%	Total	0/195	(0%)	Mean	0%	SD 0%
.....													
*Kidney: Renal Tubule: Lipoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/47	(0%)	
		0/49	(0%)	0/48	(0%)				0/50	(0%)	0/48	(0%)	
Overall Incidence	Total	0/247	(0%)	Mean	0%	SD	0%	Total	0/195	(0%)	Mean	0%	SD 0%
.....													
*Kidney: Renal Tubule: Liposarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/47	(0%)	
		0/49	(0%)	0/48	(0%)				0/50	(0%)	0/48	(0%)	
Overall Incidence	Total	0/247	(0%)	Mean	0%	SD	0%	Total	0/195	(0%)	Mean	0%	SD 0%
.....													
*Kidney: Renal Tubule: Mesenchymal Tumor Benign													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/47	(0%)	
		0/49	(0%)	0/48	(0%)				0/50	(0%)	0/48	(0%)	
Overall Incidence	Total	0/247	(0%)	Mean	0%	SD	0%	Total	0/195	(0%)	Mean	0%	SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: FEED

		Male						Female					
*Kidney: Renal Tubule: Nephroblastoma													
		0/50 0/49	(0%) (0%)	0/50 0/48	(0%) (0%)	0/50 (0%)		0/50 0/50	(0%) (0%)	0/47 0/48	(0%) (0%)		
Overall Incidence	Total	0/247	(0%)	Mean	0%	SD	0%	Total	0/195	(0%)	Mean	0%	SD 0%
.....													
*Kidney: Renal Tubule: Sarcoma													
		0/50 0/49	(0%) (0%)	0/50 1/48	(0%) (2%)	0/50 (0%)		0/50 0/50	(0%) (0%)	0/47 0/48	(0%) (0%)		
Overall Incidence	Total	1/247	(0.4%)	Mean	0.42%	SD	0.93%	Total	0/195	(0%)	Mean	0%	SD 0%
.....													
*Liver: Cholangiocarcinoma													
		0/50 1/50	(0%) (2%)	0/50 0/50	(0%) (0%)	0/50 (0%)		0/50 1/50	(0%) (2%)	0/50 0/50	(0%) (0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	1/200	(0.5%)	Mean	0.5%	SD 1%
.....													
*Liver: Cholangioma													
		0/50 0/50	(0%) (0%)	1/50 0/50	(2%) (0%)	0/50 (0%)		0/50 0/50	(0%) (0%)	0/50 0/50	(0%) (0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													
*Liver: Hemangiosarcoma													
		0/50 0/50	(0%) (0%)	0/50 0/50	(0%) (0%)	0/50 (0%)		0/50 0/50	(0%) (0%)	0/50 0/50	(0%) (0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: FEED

		Male						Female					
*Liver:													
Hepatocellular Adenoma													
		2/50	(4%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	2/50	(4%)		
		0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	3/250	(1.2%)	Mean	1.2%	SD	1.79%	Total	3/200	(1.5%)	Mean	1.5%	SD 1.91%
.....													
*Liver:													
Hepatocellular Carcinoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													
*Liver:													
Hepatocellular Carcinoma or Hepatoblastoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD 0%
.....													
*Liver:													
Hepatocellular Carcinoma or Hepatocellular Adenoma													
		2/50	(4%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	2/50	(4%)		
		0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	3/250	(1.2%)	Mean	1.2%	SD	1.79%	Total	3/200	(1.5%)	Mean	1.5%	SD 1.91%
.....													
*Liver:													
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma													
		2/50	(4%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	2/50	(4%)		
		0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	3/250	(1.2%)	Mean	1.2%	SD	1.79%	Total	3/200	(1.5%)	Mean	1.5%	SD 1.91%
.....													

#: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: FEED

Page: 181  
Report Date:10/04/2007

		Male						Female						
*Lung:														
Alveolar/Bronchiolar Adenoma														
		4/50	(8%)	0/50	(0%)	1/50	(2%)	4/50	(8%)	1/50	(2%)			
		2/50	(4%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	7/250	(2.8%)	Mean	2.8%	SD	3.35%	Total	5/200	(2.5%)	Mean	2.5%	SD	3.79%
.....														
*Lung:														
Alveolar/Bronchiolar Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		2/50	(4%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.79%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Lung:														
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma														
		4/50	(8%)	0/50	(0%)	1/50	(2%)	4/50	(8%)	1/50	(2%)			
		4/50	(8%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	9/250	(3.6%)	Mean	3.6%	SD	4.1%	Total	5/200	(2.5%)	Mean	2.5%	SD	3.79%
.....														
*Lung:														
Hemangiosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Lung:														
Sarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 182

Report Date:10/04/2007

		Male						Female						
*Lung:														
Squamous Cell Carcinoma														
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Lymph Node, Mesenteric:														
Sarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Mammary Gland:														
Adenoma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)	2/50	(4%)	1/50	(2%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	3/200	(1.5%)	Mean	1.5%	SD	1.91%
.....														
#Mammary Gland:														
Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			4/50	(8%)	2/50	(4%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	6/200	(3%)	Mean	3%	SD	3.83%
.....														
#Mammary Gland:														
Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)	2/50	(4%)	1/50	(2%)			
		0/50	(0%)	0/50	(0%)			4/50	(8%)	2/50	(4%)			
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	9/200	(4.5%)	Mean	4.5%	SD	2.52%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 183

Report Date:10/04/2007

		Male						Female						
#Mammary Gland: Fibroadenoma														
		2/50	(4%)	2/50	(4%)	0/50	(0%)		27/50	(54%)	29/50	(58%)		
		0/50	(0%)	3/50	(6%)				26/50	(52%)	24/50	(48%)		
Overall Incidence	Total	7/250	(2.8%)	Mean	2.8%	SD	2.68%	Total	106/200	(53%)	Mean	53%	SD	4.16%
.....														
#Mammary Gland: Fibroma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma														
		2/50	(4%)	2/50	(4%)	1/50	(2%)		28/50	(56%)	30/50	(60%)		
		0/50	(0%)	3/50	(6%)				26/50	(52%)	24/50	(48%)		
Overall Incidence	Total	8/250	(3.2%)	Mean	3.2%	SD	2.28%	Total	108/200	(54%)	Mean	54%	SD	5.16%
.....														
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma														
		2/50	(4%)	2/50	(4%)	1/50	(2%)		28/50	(56%)	30/50	(60%)		
		0/50	(0%)	3/50	(6%)				28/50	(56%)	25/50	(50%)		
Overall Incidence	Total	8/250	(3.2%)	Mean	3.2%	SD	2.28%	Total	111/200	(55.5%)	Mean	55.5%	SD	4.12%
.....														
#Mesentery: Fibrosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	1/50	(2%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 184

Report Date:10/04/2007

		Male						Female						
#Mesentery:														
Hemangiosarcoma														
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Mesentery:														
Osteosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Mesentery:														
Rhabdomyosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Nose:														
Adenoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)	0/49	(0%)			0/50	(0%)	0/49	(0%)			
Overall Incidence	Total	1/249	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/199	(0%)	Mean	0%	SD	0%
.....														
*Nose:														
Chondroma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/49	(0%)			0/50	(0%)	0/49	(0%)			
Overall Incidence	Total	0/249	(0%)	Mean	0%	SD	0%	Total	0/199	(0%)	Mean	0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied



Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 185

Report Date:10/04/2007

		Male						Female						
*Nose:														
Sarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/49	(0%)			0/50	(0%)	0/49	(0%)			
Overall Incidence	Total	0/249	(0%)	Mean	0%	SD	0%	Total	0/199	(0%)	Mean	0%	SD	0%
.....														
*Nose:														
Squamous Cell Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/49	(0%)			0/50	(0%)	0/49	(0%)			
Overall Incidence	Total	0/249	(0%)	Mean	0%	SD	0%	Total	0/199	(0%)	Mean	0%	SD	0%
.....														
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):														
Papilloma Squamous or Papilloma														
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):														
Squamous Cell Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):														
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma														
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%	Total	0/200	(0%)	Mean	0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

Vehicle: FEED

**Report Date:**10/04/2007

		Male				Female								
#Oral Mucosa:														
Squamous Cell Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Oral Mucosa:														
Squamous Cell Papilloma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Ovary:														
Granulosa Cell Tumor Benign														
								0/50	(0%)	0/50	(0%)			
								0/50	(0%)	0/50	(0%)			
Overall Incidence								Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Ovary:														
Granulosa Cell Tumor Malignant														
								0/50	(0%)	0/50	(0%)			
								0/50	(0%)	0/50	(0%)			
Overall Incidence								Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Ovary:														
Granulosa Cell Tumor: Benign, Malignant, NOS														
								0/50	(0%)	0/50	(0%)			
								0/50	(0%)	0/50	(0%)			
Overall Incidence								Total	0/200	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle: FEED**

**Report Date:**10/04/2007

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 188

Report Date:10/04/2007

Male										Female											
*Parathyroid Gland: Adenoma																					
		0/49	(0%)	1/45	(2%)	1/46	(2%)			0/47	(0%)	0/48	(0%)								
		0/47	(0%)	1/48	(2%)					0/49	(0%)	0/50	(0%)								
Overall Incidence	Total	3/235	(1.28%)	Mean	1.3%	SD	1.18%	Total	0/194	(0%)	Mean	0%	SD	0%							
.....																					
#Peripheral Nerve: Schwannoma Malignant																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)								
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)								
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%							
.....																					
#Peripheral Nerve: Schwannoma: Benign, Malignant, NOS																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)								
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)								
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%							
.....																					
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma																					
		10/50	(20%)	10/50	(20%)	20/50	(40%)			17/50	(34%)	24/49	(49%)								
		9/50	(18%)	16/49	(33%)					23/50	(46%)	29/48	(60%)								
Overall Incidence	Total	65/249	(26.1%)	Mean	26.13%	SD	9.7%	Total	93/197	(47.21%)	Mean	47.35%	SD	10.85%							
.....																					
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	1/49	(2%)								
		0/50	(0%)	0/49	(0%)					2/50	(4%)	0/48	(0%)								
Overall Incidence	Total	0/249	(0%)	Mean	0%	SD	0%	Total	3/197	(1.52%)	Mean	1.51%	SD	1.92%							

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle: FEED**

Report Date:10/04/2007

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle: FEED**

**Report Date:**10/04/2007

Male												Female			
*Prostate: Carcinoma or Adenoma															
		0/49	(0%)	0/50	(0%)	0/50	(0%)								
		0/50	(0%)	0/50	(0%)										
Overall Incidence	Total	0/249	(0%)	Mean	0%	SD	0%								
.....															
*Salivary Glands: Sarcoma															
		0/49	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/248	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
*Salivary Glands: Schwannoma Malignant															
		1/49	(2%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/248	(0.4%)	Mean	0.41%	SD	0.91%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Fibrosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Hemangioma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle: FEED**

**Report Date:**10/04/2007

Male												Female			
#Skeletal Muscle: Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Lipoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Rhabdomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skeletal Muscle: Sarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 192

Report Date:10/04/2007

Male										Female			
#Skin:													
Basal Cell Adenoma													
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)					1/50	(2%)	0/50	(0%)
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%	Total	1/200	(0.5%)	Mean	0.5%	SD 1%
.....													
#Skin:													
Basal Cell Adenoma or Basosquamous Tumor Benign													
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)					1/50	(2%)	0/50	(0%)
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%	Total	1/200	(0.5%)	Mean	0.5%	SD 1%
.....													
#Skin:													
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma													
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
		1/50	(2%)	1/50	(2%)					1/50	(2%)	1/50	(2%)
Overall Incidence	Total	3/250	(1.2%)	Mean	1.2%	SD	1.1%	Total	2/200	(1%)	Mean	1%	SD 1.15%
.....													
#Skin:													
Basal Cell Carcinoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)					1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD 1%
.....													
#Skin:													
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)													
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)					1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD 1%
.....													

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied



Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 193

Report Date:10/04/2007

Male						Female					
#Skin:											
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma											
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	1/50	(2%)		2/50	(4%)	1/50	(2%)	
Overall Incidence	Total	3/250	(1.2%)	Mean	1.2%	SD	1.1%	Total	3/200	(1.5%)	Mean 1.5% SD 1.91%
#Skin:											
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma											
		11/50	(22%)	4/50	(8%)	1/50	(2%)	3/50	(6%)	0/50	(0%)
		2/50	(4%)	3/50	(6%)			2/50	(4%)	2/50	(4%)
Overall Incidence	Total	21/250	(8.4%)	Mean	8.4%	SD	7.92%	Total	7/200	(3.5%)	Mean 3.5% SD 2.52%
#Skin:											
Fibroma											
		5/50	(10%)	4/50	(8%)	1/50	(2%)	3/50	(6%)	0/50	(0%)
		2/50	(4%)	8/50	(16%)			1/50	(2%)	1/50	(2%)
Overall Incidence	Total	20/250	(8%)	Mean	8%	SD	5.48%	Total	5/200	(2.5%)	Mean 2.5% SD 2.52%
#Skin:											
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma											
		6/50	(12%)	4/50	(8%)	4/50	(8%)	4/50	(8%)	0/50	(0%)
		2/50	(4%)	8/50	(16%)			1/50	(2%)	1/50	(2%)
Overall Incidence	Total	24/250	(9.6%)	Mean	9.6%	SD	4.56%	Total	6/200	(3%)	Mean 3% SD 3.46%
#Skin:											
Fibrosarcoma											
		0/50	(0%)	0/50	(0%)	2/50	(4%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.79%	Total	1/200	(0.5%)	Mean 0.5% SD 1%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 194

Report Date:10/04/2007

Male										Female				
#Skin:														
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma														
		1/50	(2%)	0/50	(0%)	3/50	(6%)		1/50	(2%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	4/250	(1.6%)	Mean	1.6%	SD	2.61%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
#Skin:														
Fibrous Histiocytoma														
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Skin:														
Hemangioma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Skin:														
Hemangiosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Skin:														
Keratoacanthoma														
		10/50	(20%)	3/50	(6%)	1/50	(2%)		3/50	(6%)	0/50	(0%)		
		1/50	(2%)	1/50	(2%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	16/250	(6.4%)	Mean	6.4%	SD	7.8%	Total	3/200	(1.5%)	Mean	1.5%	SD	3%
.....														

#: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

Vehicle: FEED

Report Date:10/04/2007

Male												Female			
#Skin:															
Lipoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Liposarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Neural Crest Tumor															
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Neurofibroma or Schwannoma benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Neurofibrosarcoma or Schwannoma (malignant or NOS)															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)					0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%	

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: FEED

Male												Female					
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		1/50	(2%)	0/50	(0%)					0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
#Skin: Osteosarcoma																	
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
#Skin: Sarcoma																	
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
#Skin: Schwannoma Benign																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	
#Skin: Schwannoma Malignant																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		1/50	(2%)	0/50	(0%)					0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%			
.....																	

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 197

Report Date:10/04/2007

Male						Female					
#Skin:											
Squamous Cell Carcinoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)
		0/50	(0%)	1/50	(2%)					0/50	(0%)
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean 0% SD 0%
#Skin:											
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)
		0/50	(0%)	1/50	(2%)					0/50	(0%)
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	1/200	(0.5%)	Mean 0.5% SD 1%
#Skin:											
Squamous Cell Papilloma											
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)
		0/50	(0%)	0/50	(0%)					0/50	(0%)
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	1/200	(0.5%)	Mean 0.5% SD 1%
#Skin:											
Squamous Cell Papilloma or Papilloma											
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)
		0/50	(0%)	0/50	(0%)					0/50	(0%)
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	1/200	(0.5%)	Mean 0.5% SD 1%
#Skin:											
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma											
		11/50	(22%)	3/50	(6%)	1/50	(2%)			3/50	(6%)
		1/50	(2%)	2/50	(4%)					0/50	(0%)
Overall Incidence	Total	18/250	(7.2%)	Mean	7.2%	SD	8.44%	Total	4/200	(2%)	Mean 2% SD 2.83%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

Vehicle: FEED

Report Date:10/04/2007

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

Route: ORAL

**Vehicle: FEED**

Page: 199

**Report Date:**10/04/2007

Overall Incidence											
Male						Female					
*Spinal Cord:											
Astrocytoma Benign											
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)
		0/50	(0%)	0/50	(0%)					0/50	(0%)
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	SD 0%
-----											
*Spleen:											
Fibrosarcoma											
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/49	(0%)
		0/49	(0%)	0/50	(0%)					0/50	(0%)
Overall Incidence	Total	0/248	(0%)	Mean	0%	SD	0%	Total	0/199	(0%)	SD 0%
-----											
*Spleen:											
Hemangioma											
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/49	(0%)
		0/49	(0%)	0/50	(0%)					0/50	(0%)
Overall Incidence	Total	0/248	(0%)	Mean	0%	SD	0%	Total	0/199	(0%)	SD 0%
-----											
*Spleen:											
Hemangiosarcoma											
		0/50	(0%)	1/50	(2%)	0/49	(0%)			0/49	(0%)
		0/49	(0%)	0/50	(0%)					0/50	(0%)
Overall Incidence	Total	1/248	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/199	(0%)	SD 0%
-----											
*Spleen:											
Leiomyosarcoma											
		0/50	(0%)	1/50	(2%)	0/49	(0%)			0/49	(0%)
		0/49	(0%)	0/50	(0%)					0/50	(0%)
Overall Incidence	Total	1/248	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/199	(0%)	SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

Vehicle: FEED

Report Date:10/04/2007

Male										Female				
#Stomach, Forestomach: Leiomyosarcoma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach: Schwannoma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach: Squamous Cell Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous														
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Forestomach: Squamous Cell Papilloma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)					0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals necropsied



**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle: FEED**

**Report Date:**10/04/2007

Male						Female					
#Stomach, Glandular: Leiomyosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
		0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean
SD 0%											
#Stomach, Glandular: Lipoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
		0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean
SD 0%											
*Testes: Adenoma											
Overall Incidence	Total	45/50	(90%)	46/50	(92%)	49/50	(98%)				
		48/50	(96%)	46/50	(92%)						
		234/250	(93.6%)	Mean	93.6%	SD	3.29%				
SD 3.29%											
*Thymus: Sarcoma											
Overall Incidence	Total	0/48	(0%)	0/48	(0%)	0/47	(0%)	0/50	(0%)	0/46	(0%)
		0/48	(0%)	0/48	(0%)			0/48	(0%)	0/47	(0%)
		0/239	(0%)	Mean	0%	SD	0%	Total	0/191	(0%)	Mean
SD 0%											
*Thymus: Thymoma Benign											
Overall Incidence	Total	0/48	(0%)	0/48	(0%)	0/47	(0%)	0/50	(0%)	0/46	(0%)
		0/48	(0%)	0/48	(0%)			0/48	(0%)	0/47	(0%)
		0/239	(0%)	Mean	0%	SD	0%	Total	0/191	(0%)	Mean
SD 0%											

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

Vehicle: FEED

Report Date:10/04/2007

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: FEED

Page: 203

Report Date:10/04/2007

Overall Incidence											
Male						Female					
*Thyroid Gland: Follicular Cell: Adenoma											
		2/50	(4%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/49	(0%)
		1/48	(2%)	0/47	(0%)			0/49	(0%)	2/47	(4%)
Overall Incidence	Total	5/245	(2.04%)	Mean	2.02%	SD	2%	Total	2/195	(1.03%)	Mean 1.06% SD 2.13%
*Thyroid Gland: Follicular Cell: Carcinoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)
		0/48	(0%)	0/47	(0%)			1/49	(2%)	0/47	(0%)
Overall Incidence	Total	0/245	(0%)	Mean	0%	SD	0%	Total	1/195	(0.51%)	Mean 0.51% SD 1.02%
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma											
		2/50	(4%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/49	(0%)
		1/48	(2%)	0/47	(0%)			1/49	(2%)	2/47	(4%)
Overall Incidence	Total	5/245	(2.04%)	Mean	2.02%	SD	2%	Total	3/195	(1.54%)	Mean 1.57% SD 2.03%
#Tissue NOS: Fibrosarcoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean 0.5% SD 1%
#Tissue NOS: Leiomyoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean 0% SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: FEED

Male							Female							
#Tissue NOS: Lipoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Tissue NOS: Paranganglioma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Tissue NOS: Sarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Tissue NOS: Schwannoma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	1/50	(2%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														
#Tongue: Liposarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	1/200	(0.5%)	Mean	0.5%	SD	1%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
**Route: ORAL**  
**Vehicle: FEED**

**Page: 205**  
**Report Date:**10/04/2007

		Male						Female						
#Tongue:														
Squamous Cell Carcinoma or Papilloma Squamous														
		1/50	(2%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Tongue:														
Squamous Cell Papilloma														
		1/50	(2%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Tooth:														
Odontoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)				0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/250	(0%)	Mean	0%	SD	0%	Total	0/200	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder:														
Carcinoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)				0/50	(0%)	0/49	(0%)		
Overall Incidence	Total	0/248	(0%)	Mean	0%	SD	0%	Total	0/199	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder:														
Carcinoma or Papilloma														
		0/50	(0%)	0/50	(0%)	1/49	(2%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)				1/50	(2%)	0/49	(0%)		
Overall Incidence	Total	1/248	(0.4%)	Mean	0.41%	SD	0.91%	Total	1/199	(0.5%)	Mean	0.5%	SD	1%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle: FEED**

**Report Date:**10/04/2007

Overall Incidence of Uterine Cancer														
Male								Female						
*Urinary Bladder: Leiomyosarcoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)				0/50	(0%)	0/49	(0%)		
Overall Incidence	Total	0/248	(0%)	Mean	0%	SD	0%	Total	0/199	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder: Papilloma														
		0/50	(0%)	0/50	(0%)	1/49	(2%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/49	(0%)				1/50	(2%)	0/49	(0%)		
Overall Incidence	Total	1/248	(0.4%)	Mean	0.41%	SD	0.91%	Total	1/199	(0.5%)	Mean	0.5%	SD	1%
.....														
#Uterus: Adenoma														
									0/50	(0%)	0/50	(0%)		
									0/50	(0%)	0/50	(0%)		
Overall Incidence								Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Uterus: Carcinoma														
									0/50	(0%)	0/50	(0%)		
									0/50	(0%)	0/50	(0%)		
Overall Incidence								Total	0/200	(0%)	Mean	0%	SD	0%
.....														
#Uterus: Deciduoma Benign														
									0/50	(0%)	0/50	(0%)		
									0/50	(0%)	0/50	(0%)		
Overall Incidence								Total	0/200	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: FEED

Page: 207  
Report Date:10/04/2007

Male			Female		
#Uterus:					
Hemangioma					
		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/200	(0%)	Mean 0%	SD 0%
.....					
#Uterus:					
Hemangiosarcoma					
		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/200	(0%)	Mean 0%	SD 0%
.....					
#Uterus:					
Leiomyoma					
		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/200	(0%)	Mean 0%	SD 0%
.....					
#Uterus:					
Polyp Stromal					
		6/50	(12%)	10/50	(20%)
		8/50	(16%)	16/50	(32%)
Overall Incidence	Total	40/200	(20%)	Mean 20%	SD 8.64%
.....					
#Uterus:					
Sarcoma Stromal					
		0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)
Overall Incidence	Total	1/200	(0.5%)	Mean 0.5%	SD 1%
.....					

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle: FEED**

**Report Date:**10/04/2007

	Male						Female					
#Uterus:												
Sarcoma Stromal or Polyp Stromal												
Overall Incidence	Total	41/200	(20.5%)					Mean	20.5%		SD	9.57%
<hr/>												
#Uterus:												
Schwannoma Malignant												
Overall Incidence	Total	0/200	(0%)					Mean	0%		SD	0%
<hr/>												
#Vagina:												
Polyp												
Overall Incidence	Total	0/200	(0%)					Mean	0%		SD	0%
<hr/>												
#Vagina:												
Sarcoma												
Overall Incidence	Total	0/200	(0%)					Mean	0%		SD	0%
<hr/>												
#Zymbal's Gland:												
Adenoma												
Overall Incidence	Total	0/250	(0%)					Mean	0%		SD	0%

#: Denominator is number of animals necropsied



**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

Vehicle: FEED

**Report Date:**10/04/2007

Male												Female			
#Zymbal's Gland: Carcinoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	1/50	(2%)			
		0/50	(0%)	3/50	(6%)				0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	4/250	(1.6%)	Mean	1.6%	SD	2.61%	Total	1/200	(0.5%)	Mean	0.5%	SD 1%		
.....															
#Zymbal's Gland: Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	1/50	(2%)			
		0/50	(0%)	3/50	(6%)				0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	4/250	(1.6%)	Mean	1.6%	SD	2.61%	Total	1/200	(0.5%)	Mean	0.5%	SD 1%		

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

**Toxicology Data Management System**

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 210

Report Date:10/04/2007

**Study Summary**

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Southern Research Institute	052011407	10/02/02	730	50 (3)	28(696)	532.4	Sodium dichromate dihydrate (VI)
Southern Research Institute	059601905	09/26/01	729	50 (3)	31(686)	526.0	Water disinfection byproducts (Bromochloroacetic acid)
Southern Research Institute	059601803	12/15/98	729	50 (3)	29(682)	511.6	Water disinfection byproducts (Bromodichloromethane)
Southern Research Institute	059601705	03/08/00	729	50 (3)	34(683)	522.9	Water disinfection byproducts (Dibromoacetic acid)
Southern Research Institute	059601505	09/05/01	729	50 (3)	31(692)	507.8	Water disinfection byproducts (Dibromoacetonitrile)
Southern Research Institute	059601003	09/16/98	729	50 (3)	36(687)	514.1	Water disinfection byproducts (Sodium chlorate)
Female							
Southern Research Institute	052011407	10/02/02	735	50 (5)	33(700)	351.2	Sodium dichromate dihydrate (VI)
Southern Research Institute	059601905	09/26/01	731	50 (5)	34(688)	357.3	Water disinfection byproducts (Bromochloroacetic acid)
Southern Research Institute	059601803	N/A	N/A	0 (0)	0(0)	N/A	Water disinfection byproducts (Bromodichloromethane)
Southern Research Institute	059601705	03/08/00	734	50 (5)	35(693)	350.5	Water disinfection byproducts (Dibromoacetic acid)
Southern Research Institute	059601505	09/05/01	734	50 (5)	29(689)	337.6	Water disinfection byproducts (Dibromoacetonitrile)
Southern Research Institute	059601003	09/16/98	734	50 (5)	37(699)	341.7	Water disinfection byproducts (Sodium chlorate)

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

**Length of Study:** CHRONIC

## Vehicle: WATER

Report Date:10/04/2007

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: WATER

		Male						Female						
#All Organs:														
Hemangiosarcoma or Hemangioma		1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	3/300	(1%)	Mean	1%	SD	1.1%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%
.....														
#All Organs:														
Histiocytic Sarcoma		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)			
		2/50	(4%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	3/300	(1%)	Mean	1%	SD	1.67%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%
.....														
#All Organs:														
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated		26/50	(52%)	21/50	(42%)	16/50	(32%)	8/50	(16%)	15/50	(30%)			
		17/50	(34%)	21/50	(42%)	13/50	(26%)	11/50	(22%)	14/50	(28%)	11/50	(22%)	
Overall Incidence	Total	114/300	(38%)	Mean	38%	SD	9.21%	Total	59/250	(23.6%)	Mean	23.6%	SD	5.55%
.....														
#All Organs:														
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%
.....														
#All Organs:														
Mesothelioma: Benign		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

**Report Date:**10/04/2007

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

Route: ORAL

**Vehicle:** WATER

Page: 214

**Report Date:**10/04/2007

Male														Female					
*Adrenal Cortex: Adenoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)						
		0/49	(0%)	0/50	(0%)	0/49	(0%)			1/49	(2%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/298	(0%)	Mean	0%	SD	0%	Total	2/249	(0.8%)	Mean	0.81%	SD	1.11%					
.....																			
*Adrenal Cortex: Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
		0/49	(0%)	0/50	(0%)	0/49	(0%)			0/49	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/298	(0%)	Mean	0%	SD	0%	Total	0/249	(0%)	Mean	0%	SD	0%					
.....																			
*Adrenal Medulla: Ganglioneuroma																			
		0/49	(0%)	0/50	(0%)	0/50	(0%)			0/49	(0%)	0/49	(0%)						
		0/49	(0%)	0/50	(0%)	0/49	(0%)			0/49	(0%)	0/49	(0%)	0/50	(0%)				
Overall Incidence	Total	0/297	(0%)	Mean	0%	SD	0%	Total	0/246	(0%)	Mean	0%	SD	0%					
.....																			
*Adrenal Medulla: Hemangioma																			
		0/49	(0%)	0/50	(0%)	0/50	(0%)			0/49	(0%)	0/49	(0%)						
		0/49	(0%)	0/50	(0%)	0/49	(0%)			0/49	(0%)	0/49	(0%)	0/50	(0%)				
Overall Incidence	Total	0/297	(0%)	Mean	0%	SD	0%	Total	0/246	(0%)	Mean	0%	SD	0%					
.....																			
*Adrenal Medulla: Pheochromocytoma Benign																			
		6/49	(12%)	9/50	(18%)	8/50	(16%)			2/49	(4%)	2/49	(4%)						
		7/49	(14%)	10/50	(20%)	6/49	(12%)			1/49	(2%)	1/49	(2%)	2/50	(4%)				
Overall Incidence	Total	46/297	(15.49%)	Mean	15.46%	SD	3.14%	Total	8/246	(3.25%)	Mean	3.25%	SD	1.1%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 215

Report Date:10/04/2007

		Male						Female							
*Adrenal Medulla: Pheochromocytoma Complex															
		0/49	(0%)	0/50	(0%)	2/50	(4%)			0/49	(0%)	0/49	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/49	(0%)			0/49	(0%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total	2/297	(0.67%)	Mean	0.67%	SD	1.63%	Total	0/246	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Medulla: Pheochromocytoma Malignant															
		1/49	(2%)	1/50	(2%)	1/50	(2%)			1/49	(2%)	2/49	(4%)		
		0/49	(0%)	0/50	(0%)	3/49	(6%)			0/49	(0%)	0/49	(0%)	0/50	(0%)
Overall Incidence	Total	6/297	(2.02%)	Mean	2.03%	SD	2.24%	Total	3/246	(1.22%)	Mean	1.22%	SD	1.83%	
.....															
*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS															
		7/49	(14%)	10/50	(20%)	11/50	(22%)			3/49	(6%)	4/49	(8%)		
		7/49	(14%)	10/50	(20%)	9/49	(18%)			1/49	(2%)	1/49	(2%)	2/50	(4%)
Overall Incidence	Total	54/297	(18.18%)	Mean	18.16%	SD	3.21%	Total	11/246	(4.47%)	Mean	4.47%	SD	2.66%	
.....															
#Blood Vessel: Osteosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD	0%	
.....															
#Bone: Chondrosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 216

Report Date:10/04/2007

		Male						Female					
#Bone:													
Chondrosarcoma or Chondroma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/250	(0.4%)	Mean	0.4%	SD 0.89%
.....													
#Bone:													
Chordoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD 0%
.....													
#Bone:													
Osteoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD 0%
.....													
#Bone:													
Osteosarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	1/250	(0.4%)	Mean	0.4%	SD 0.89%
.....													
#Bone:													
Osteosarcoma or Osteoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	1/250	(0.4%)	Mean	0.4%	SD 0.89%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: WATER

		Male						Female						
*Brain:														
Astrocytoma Malignant														
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/249	(0%)	Mean	0%	SD	0%
.....														
*Brain:														
Ependymoma Benign														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/249	(0%)	Mean	0%	SD	0%
.....														
*Brain:														
Glioma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/249	(0%)	Mean	0%	SD	0%
.....														
*Brain:														
Granular Cell Tumor Benign														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/249	(0%)	Mean	0%	SD	0%
.....														
*Brain:														
Medulloblastoma Mal														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/249	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

Vehicle: WATER

Report Date:10/04/2007

Male								Female							
*Brain: Meningioma Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/249	(0.4%)	Mean	0.4%	SD	0.89%	
.....															
*Brain: Meningioma: Benign, Malignant, NOS															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)		
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/249	(0.4%)	Mean	0.4%	SD	0.89%	
.....															
*Brain: Oligodendroglioma Benign															
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/49	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/249	(0%)	Mean	0%	SD	0%	
.....															
*Brain: Oligodendroglioma Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/49	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/249	(0%)	Mean	0%	SD	0%	
.....															
*Brain: Oligodendroglioma, Glioma, or Astrocytoma															
		0/50	(0%)	0/50	(0%)	2/50	(4%)			0/50	(0%)	0/50	(0%)	0/49	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	3/300	(1%)	Mean	1%	SD	1.67%	Total	0/249	(0%)	Mean	0%	SD	0%	

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 219

Report Date:10/04/2007

		Male						Female						
*Clitoral/Preputial Gland: Adenoma														
		4/50	(8%)	4/50	(8%)	2/50	(4%)		2/50	(4%)	17/50	(34%)		
		3/50	(6%)	1/48	(2%)	1/48	(2%)		8/50	(16%)	5/50	(10%)	11/49	(22%)
Overall Incidence	Total	15/296	(5.07%)	Mean	5.03%	SD	2.72%	Total	43/249	(17.27%)	Mean	17.29%	SD	11.59%
.....														
*Clitoral/Preputial Gland: Carcinoma														
		1/50	(2%)	2/50	(4%)	1/50	(2%)		8/50	(16%)	0/50	(0%)		
		0/50	(0%)	0/48	(0%)	3/48	(6%)		1/50	(2%)	1/50	(2%)	3/49	(6%)
Overall Incidence	Total	7/296	(2.36%)	Mean	2.38%	SD	2.42%	Total	13/249	(5.22%)	Mean	5.22%	SD	6.42%
.....														
*Clitoral/Preputial Gland: Carcinoma or Adenoma														
		4/50	(8%)	5/50	(10%)	3/50	(6%)		10/50	(20%)	17/50	(34%)		
		3/50	(6%)	1/48	(2%)	4/48	(8%)		9/50	(18%)	6/50	(12%)	14/49	(29%)
Overall Incidence	Total	20/296	(6.76%)	Mean	6.74%	SD	2.74%	Total	56/249	(22.49%)	Mean	22.51%	SD	8.74%
.....														
*Clitoral/Preputial Gland: Fibrosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/48	(0%)	0/48	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	0/296	(0%)	Mean	0%	SD	0%	Total	0/249	(0%)	Mean	0%	SD	0%
.....														
*Clitoral/Preputial Gland: Squamous Cell Papilloma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/48	(0%)	0/48	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)
Overall Incidence	Total	1/296	(0.34%)	Mean	0.33%	SD	0.82%	Total	0/249	(0%)	Mean	0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

**Report Date:**10/04/2007

Male												Female					
#Ear:																	
Neural Crest Tumor																	
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total		0/250	(0%)	Mean	0%	SD		0%	
#Esophagus:																	
Fibrosarcoma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD		0%	
#Eye:																	
Amelanotic Melanoma, Benign																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD		0%	
#Eye:																	
Melanoma Benign																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD		0%	
#Eye:																	
Schwannoma Malignant																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD		0%	

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 221

Report Date:10/04/2007

Male														Female					
#Harderian Gland: Adenoma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
#Harderian Gland: Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
#Harderian Gland: Carcinoma or Adenoma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	2/300	(0.67%)	Mean	0.67%	SD	1.03%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
*Heart: Schwannoma Benign																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	1/50	(2%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)					
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%					
.....																			
*Heart: Schwannoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: WATER

		Male						Female						
#Intestine Large: Colon/Rectum: Adenoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%
.....														
#Intestine Large: Colon/Rectum: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%
.....														
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%
.....														
#Intestine Large: Colon/Rectum: Leiomyosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%
.....														
#Intestine Small: Duodenum: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

Route: ORAL

**Vehicle:** WATER

Page: 223

Report Date:10/04/2007

Male														Female					
#Intestine Small: Duodenum: Leiomyoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%					
#Intestine Small: Jejunum: Leiomyoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
#Intestine Small: Jejunum: Leiomyosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%					
#Intestine Small: Site Unspecified: Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
#Intestine Small: Site Unspecified: Carcinoma or Adenoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 224

Report Date:10/04/2007

		Male						Female					
#Intestine Small: Site Unspecified:													
Leiomyoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/250	(0.4%)	Mean	0.4%	SD 0.89%
.....													
#Intestine Small: Site Unspecified:													
Leiomyosarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/250	(0.4%)	Mean	0.4%	SD 0.89%
.....													
*Islets, Pancreatic:													
Adenoma													
		4/50	(8%)	3/50	(6%)	3/49	(6%)	2/50	(4%)	3/49	(6%)		
		5/48	(10%)	5/49	(10%)	3/50	(6%)	0/47	(0%)	1/50	(2%)	2/50	(4%)
Overall Incidence	Total	23/296	(7.77%)	Mean	7.79%	SD	2.1%	Total	8/246	(3.25%)	Mean	3.22%	SD 2.32%
.....													
*Islets, Pancreatic:													
Carcinoma													
		0/50	(0%)	2/50	(4%)	0/49	(0%)	0/50	(0%)	0/49	(0%)		
		0/48	(0%)	1/49	(2%)	2/50	(4%)	0/47	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	5/296	(1.69%)	Mean	1.67%	SD	1.97%	Total	1/246	(0.41%)	Mean	0.4%	SD 0.89%
.....													
*Islets, Pancreatic:													
Carcinoma or Adenoma													
		4/50	(8%)	5/50	(10%)	3/49	(6%)	2/50	(4%)	3/49	(6%)		
		5/48	(10%)	6/49	(12%)	5/50	(10%)	0/47	(0%)	1/50	(2%)	3/50	(6%)
Overall Incidence	Total	28/296	(9.46%)	Mean	9.46%	SD	2.12%	Total	9/246	(3.66%)	Mean	3.62%	SD 2.64%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied



Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 225

Report Date:10/04/2007

Male														Female					
*Kidney: Pelvis and Transitional Epithelium: Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)							
		0/49	(0%)	0/49	(0%)	0/47	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/294	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)							
		0/49	(0%)	0/49	(0%)	0/47	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/294	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Pelvis and Transitional Epithelium: Papilloma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)							
		0/49	(0%)	0/49	(0%)	0/47	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/294	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
*Kidney: Renal Tubule: Adenoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	1/50	(2%)							
		1/49	(2%)	0/49	(0%)	0/47	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	1/294	(0.34%)	Mean	0.34%	SD	0.83%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%					
.....																			
*Kidney: Renal Tubule: Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)							
		0/49	(0%)	0/49	(0%)	0/47	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/294	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

**Report Date:**10/04/2007

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

Route: ORAL

**Vehicle:** WATER

Page: 227

Report Date:10/04/2007

Male										Female					
*Kidney: Renal Tubule: Nephroblastoma															
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)			
		0/49	(0%)	0/49	(0%)	0/47	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/294	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Sarcoma															
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)			
		0/49	(0%)	0/49	(0%)	0/47	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/294	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%	
.....															
*Liver: Cholangiocarcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%	
.....															
*Liver: Cholangioma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%	
.....															
*Liver: Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: WATER

Male										Female											
*Liver:																					
Hepatocellular Adenoma																					
		0/50	(0%)	2/50	(4%)	1/50	(2%)			1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	0/50	(0%)			2/50	(4%)	0/50	(0%)								
Overall Incidence	Total	4/300	(1.33%)	Mean	1.33%	SD	1.63%	Total		3/250	(1.2%)	Mean	1.2%	SD		1.79%					
.....																					
*Liver:																					
Hepatocellular Carcinoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)								
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD		0%					
.....																					
*Liver:																					
Hepatocellular Carcinoma or Hepatoblastoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)								
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD		0%					
.....																					
*Liver:																					
Hepatocellular Carcinoma or Hepatocellular Adenoma																					
		0/50	(0%)	2/50	(4%)	1/50	(2%)			1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	0/50	(0%)			2/50	(4%)	0/50	(0%)								
Overall Incidence	Total	4/300	(1.33%)	Mean	1.33%	SD	1.63%	Total		3/250	(1.2%)	Mean	1.2%	SD		1.79%					
.....																					
*Liver:																					
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma																					
		0/50	(0%)	2/50	(4%)	1/50	(2%)			1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	0/50	(0%)			2/50	(4%)	0/50	(0%)								
Overall Incidence	Total	4/300	(1.33%)	Mean	1.33%	SD	1.63%	Total		3/250	(1.2%)	Mean	1.2%	SD		1.79%					
.....																					

#: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: WATER

Male										Female									
*Lung: Alveolar/Bronchiolar Adenoma																			
		4/50	(8%)	2/50	(4%)	0/50	(0%)			4/50	(8%)	1/50	(2%)			1/50	(2%)	1/50	(2%)
		2/50	(4%)	3/50	(6%)	1/50	(2%)			1/50	(2%)	1/50	(2%)						
Overall Incidence	Total	12/300	(4%)	Mean	4%	SD	2.83%	Total		8/250	(3.2%)	Mean	3.2%	SD		2.68%			
.....																			
*Lung: Alveolar/Bronchiolar Carcinoma																			
		0/50	(0%)	1/50	(2%)	1/50	(2%)			0/50	(0%)	0/50	(0%)			1/50	(2%)	1/50	(2%)
		0/50	(0%)	1/50	(2%)	3/50	(6%)			1/50	(2%)	0/50	(0%)						
Overall Incidence	Total	6/300	(2%)	Mean	2%	SD	2.19%	Total		2/250	(0.8%)	Mean	0.8%	SD		1.1%			
.....																			
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma																			
		4/50	(8%)	3/50	(6%)	1/50	(2%)			4/50	(8%)	1/50	(2%)			2/50	(4%)	2/50	(4%)
		2/50	(4%)	4/50	(8%)	4/50	(8%)			2/50	(4%)	1/50	(2%)						
Overall Incidence	Total	18/300	(6%)	Mean	6%	SD	2.53%	Total		10/250	(4%)	Mean	4%	SD		2.45%			
.....																			
*Lung: Hemangiosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD		0%			
.....																			
*Lung: Sarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total		0/250	(0%)	Mean	0%	SD		0%			
.....																			

#: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 230

Report Date:10/04/2007

Male														Female					
*Lung: Squamous Cell Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
#Lymph Node, Mesenteric: Sarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
#Mammary Gland: Adenoma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		2/50	(4%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	3/50	(6%)					
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	5/250	(2%)	Mean	2%	SD	2.83%					
.....																			
#Mammary Gland: Carcinoma																			
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)							
		1/50	(2%)	1/50	(2%)	0/50	(0%)		3/50	(6%)	2/50	(4%)	3/50	(6%)					
Overall Incidence	Total	3/300	(1%)	Mean	1%	SD	1.1%	Total	9/250	(3.6%)	Mean	3.6%	SD	2.61%					
.....																			
#Mammary Gland: Carcinoma or Adenoma																			
		1/50	(2%)	0/50	(0%)	1/50	(2%)		2/50	(4%)	1/50	(2%)							
		1/50	(2%)	1/50	(2%)	0/50	(0%)		3/50	(6%)	2/50	(4%)	6/50	(12%)					
Overall Incidence	Total	4/300	(1.33%)	Mean	1.33%	SD	1.03%	Total	14/250	(5.6%)	Mean	5.6%	SD	3.85%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 231

Report Date:10/04/2007

Male														Female					
#Mammary Gland: Fibroadenoma																			
		2/50	(4%)	3/50	(6%)	1/50	(2%)			37/50	(74%)	43/50	(86%)						
		4/50	(8%)	6/50	(12%)	2/50	(4%)			32/50	(64%)	31/50	(62%)	33/50	(66%)				
Overall Incidence	Total	18/300	(6%)	Mean	6%	SD	3.58%		Total	176/250	(70.4%)	Mean	70.4%	SD	9.84%				
.....																			
#Mammary Gland: Fibroma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%		Total	0/250	(0%)	Mean	0%	SD	0%				
.....																			
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma																			
		2/50	(4%)	3/50	(6%)	2/50	(4%)			37/50	(74%)	43/50	(86%)						
		4/50	(8%)	6/50	(12%)	2/50	(4%)			32/50	(64%)	31/50	(62%)	35/50	(70%)				
Overall Incidence	Total	19/300	(6.33%)	Mean	6.33%	SD	3.2%		Total	178/250	(71.2%)	Mean	71.2%	SD	9.55%				
.....																			
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma																			
		3/50	(6%)	3/50	(6%)	2/50	(4%)			37/50	(74%)	43/50	(86%)						
		5/50	(10%)	6/50	(12%)	2/50	(4%)			32/50	(64%)	31/50	(62%)	37/50	(74%)				
Overall Incidence	Total	21/300	(7%)	Mean	7%	SD	3.29%		Total	180/250	(72%)	Mean	72%	SD	9.59%				
.....																			
#Mesentery: Fibrosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%		Total	0/250	(0%)	Mean	0%	SD	0%				
.....																			

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

**Report Date:**10/04/2007

Male										Female					
#Mesentery: Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%		Total	0/250	(0%)	Mean	0%	SD	0%
.....															
#Mesentery: Osteosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%		Total	0/250	(0%)	Mean	0%	SD	0%
.....															
#Mesentery: Rhabdomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%		Total	0/250	(0%)	Mean	0%	SD	0%
.....															
*Nose: Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/298	(0%)	Mean	0%	SD	0%		Total	0/250	(0%)	Mean	0%	SD	0%
.....															
*Nose: Chondroma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/298	(0%)	Mean	0%	SD	0%		Total	0/250	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals necropsied



Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 233

Report Date:10/04/2007

Male														Female					
*Nose:																			
Sarcoma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)							
		0/49	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	1/298	(0.34%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
*Nose:																			
Squamous Cell Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)							
		0/49	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/298	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):																			
Papilloma Squamous or Papilloma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		1/50	(2%)	1/50	(2%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)					
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	3/250	(1.2%)	Mean	1.2%	SD	1.1%					
.....																			
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):																			
Squamous Cell Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):																			
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		1/50	(2%)	1/50	(2%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)					
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	3/250	(1.2%)	Mean	1.2%	SD	1.1%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

**Report Date:**10/04/2007

Male										Female					
#Oral Mucosa: Squamous Cell Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%	
.....															
#Oral Mucosa: Squamous Cell Papilloma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	
.....															
*Ovary: Granulosa Cell Tumor Benign															
									0/49	(0%)	0/50	(0%)			
									0/50	(0%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total							Total	1/249	(0.4%)	Mean	0.4%	SD	0.89%	
.....															
*Ovary: Granulosa Cell Tumor Malignant															
									0/49	(0%)	0/50	(0%)			
									0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total							Total	0/249	(0%)	Mean	0%	SD	0%	
.....															
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS															
									0/49	(0%)	0/50	(0%)			
									0/50	(0%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total							Total	1/249	(0.4%)	Mean	0.4%	SD	0.89%	

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

**Report Date:**10/04/2007

Male										Female													
*Ovary:																							
Granulosa-Theca Tumor Benign																							
										0/49	(0%)	0/50	(0%)										
										0/50	(0%)	1/50	(2%)	0/50	(0%)								
Overall Incidence										Total	1/249	(0.4%)	Mean	0.4%	SD	0.89%							
.....																							
*Pancreas:																							
Adenoma																							
										1/50	(2%)	2/50	(4%)	3/49	(6%)	0/50	(0%)	0/50	(0%)				
										0/48	(0%)	1/49	(2%)	0/49	(0%)	0/47	(0%)	0/50	(0%)	2/50	(4%)		
Overall Incidence										Total	7/295	(2.37%)	Mean	2.36%	SD	2.38%	Total	2/247	(0.81%)	Mean	0.8%	SD	1.79%
.....																							
*Pancreas:																							
Carcinoma																							
										0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)				
										0/48	(0%)	0/49	(0%)	0/49	(0%)	0/47	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence										Total	0/295	(0%)	Mean	0%	SD	0%	Total	0/247	(0%)	Mean	0%	SD	0%
.....																							
*Pancreas:																							
Carcinoma or Adenoma																							
										1/50	(2%)	2/50	(4%)	3/49	(6%)	0/50	(0%)	0/50	(0%)				
										0/48	(0%)	1/49	(2%)	0/49	(0%)	0/47	(0%)	0/50	(0%)	2/50	(4%)		
Overall Incidence										Total	7/295	(2.37%)	Mean	2.36%	SD	2.38%	Total	2/247	(0.81%)	Mean	0.8%	SD	1.79%
.....																							
*Pancreas:																							
Mixed Tumor Benign																							
										0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)				
										0/48	(0%)	0/49	(0%)	0/49	(0%)	0/47	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence										Total	0/295	(0%)	Mean	0%	SD	0%	Total	0/247	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 236

Report Date:10/04/2007

Male														Female					
*Parathyroid Gland: Adenoma																			
		0/46	(0%)	0/44	(0%)	0/48	(0%)		0/46	(0%)	0/42	(0%)							
		0/50	(0%)	1/46	(2%)	0/49	(0%)		0/50	(0%)	0/42	(0%)	0/47	(0%)					
Overall Incidence	Total	1/283	(0.35%)	Mean	0.36%	SD	0.89%	Total	0/227	(0%)	Mean	0%	SD	0%					
.....																			
#Peripheral Nerve: Schwannoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
#Peripheral Nerve: Schwannoma: Benign, Malignant, NOS																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma																			
		16/50	(32%)	23/48	(48%)	22/49	(45%)		28/50	(56%)	28/50	(56%)							
		23/50	(46%)	24/50	(48%)	16/48	(33%)		26/50	(52%)	27/49	(55%)	23/49	(47%)					
Overall Incidence	Total	124/295	(42.03%)	Mean	42.02%	SD	7.36%	Total	132/248	(53.23%)	Mean	53.21%	SD	3.87%					
.....																			
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma																			
		0/50	(0%)	0/48	(0%)	0/49	(0%)		2/50	(4%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/48	(0%)		0/50	(0%)	0/49	(0%)	1/49	(2%)					
Overall Incidence	Total	0/295	(0%)	Mean	0%	SD	0%	Total	3/248	(1.21%)	Mean	1.21%	SD	1.79%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

Vehicle: WATER

Report Date:10/04/2007

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

Route: ORAL

**Vehicle:** WATER

Page: 238

**Report Date:**10/04/2007

Male														Female					
*Prostate: Carcinoma or Adenoma																			
		2/50	(4%)	0/50	(0%)	0/50	(0%)												
		0/50	(0%)	0/49	(0%)	0/50	(0%)												
Overall Incidence	Total	2/299	(0.67%)	Mean	0.67%	SD	1.63%												
.....																			
*Salivary Glands: Sarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50						
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD 0%						
.....																			
*Salivary Glands: Schwannoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50						
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD 0%						
.....																			
#Skeletal Muscle: Fibrosarcoma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50						
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD 0%						
.....																			
#Skeletal Muscle: Hemangioma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)							
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50						
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD 0%						

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 239

Report Date:10/04/2007

		Male						Female					
#Skeletal Muscle: Hemangiosarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD 0%
.....													
#Skeletal Muscle: Lipoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD 0%
.....													
#Skeletal Muscle: Rhabdomyosarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD 0%
.....													
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD 0%
.....													
#Skeletal Muscle: Sarcoma													
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	2/300	(0.67%)	Mean	0.67%	SD	1.03%	Total	0/250	(0%)	Mean	0%	SD 0%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 240

Report Date:10/04/2007

Male														Female					
#Skin:																			
Basal Cell Adenoma																			
		2/50	(4%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)							
		0/50	(0%)	2/50	(4%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	5/300	(1.67%)	Mean	1.67%	SD	1.97%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
#Skin:																			
Basal Cell Adenoma or Basosquamous Tumor Benign																			
		2/50	(4%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)							
		0/50	(0%)	2/50	(4%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	5/300	(1.67%)	Mean	1.67%	SD	1.97%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
#Skin:																			
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma																			
		2/50	(4%)	3/50	(6%)	1/50	(2%)		0/50	(0%)	0/50	(0%)							
		1/50	(2%)	2/50	(4%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	2/50	(4%)					
Overall Incidence	Total	10/300	(3.33%)	Mean	3.33%	SD	1.63%	Total	2/250	(0.8%)	Mean	0.8%	SD	1.79%					
.....																			
#Skin:																			
Basal Cell Carcinoma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)							
		1/50	(2%)	2/50	(4%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	1/50	(2%)					
Overall Incidence	Total	4/300	(1.33%)	Mean	1.33%	SD	1.63%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%					
.....																			
#Skin:																			
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)							
		1/50	(2%)	2/50	(4%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	1/50	(2%)					
Overall Incidence	Total	4/300	(1.33%)	Mean	1.33%	SD	1.63%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%					
.....																			

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied



Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 241

Report Date:10/04/2007

Male										Female						
#Skin:																
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma																
		2/50	(4%)	3/50	(6%)	2/50	(4%)			0/50	(0%)	0/50	(0%)			
		2/50	(4%)	4/50	(8%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	3/50	(6%)	
Overall Incidence	Total	14/300	(4.67%)	Mean	4.67%	SD	2.07%			Total	3/250	(1.2%)	Mean	1.2%	SD	2.68%
.....																
#Skin:																
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma																
		5/50	(10%)	6/50	(12%)	4/50	(8%)			1/50	(2%)	0/50	(0%)			
		7/50	(14%)	11/50	(22%)	5/50	(10%)			1/50	(2%)	0/50	(0%)	3/50	(6%)	
Overall Incidence	Total	38/300	(12.67%)	Mean	12.67%	SD	5.01%			Total	5/250	(2%)	Mean	2%	SD	2.45%
.....																
#Skin:																
Fibroma																
		8/50	(16%)	7/50	(14%)	6/50	(12%)			1/50	(2%)	1/50	(2%)			
		5/50	(10%)	8/50	(16%)	9/50	(18%)			1/50	(2%)	0/50	(0%)	4/50	(8%)	
Overall Incidence	Total	43/300	(14.33%)	Mean	14.33%	SD	2.94%			Total	7/250	(2.8%)	Mean	2.8%	SD	3.03%
.....																
#Skin:																
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma																
		11/50	(22%)	8/50	(16%)	7/50	(14%)			1/50	(2%)	1/50	(2%)			
		6/50	(12%)	9/50	(18%)	10/50	(20%)			1/50	(2%)	1/50	(2%)	4/50	(8%)	
Overall Incidence	Total	51/300	(17%)	Mean	17%	SD	3.74%			Total	8/250	(3.2%)	Mean	3.2%	SD	2.68%
.....																
#Skin:																
Fibrosarcoma																
		1/50	(2%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	3/300	(1%)	Mean	1%	SD	1.1%			Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: WATER

Page: 242  
Report Date:10/04/2007

												Male	Female
#Skin:													
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma													
		3/50	(6%)	1/50	(2%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	1/50	(2%)		0/50	(0%)	1/50	(2%)	0/50 (0%)
Overall Incidence	Total	8/300	(2.67%)	Mean	2.67%	SD	1.63%	Total	1/250	(0.4%)	Mean	0.4%	SD 0.89%
.....													
#Skin:													
Fibrous Histiocytoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD 0%
.....													
#Skin:													
Hemangioma													
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	2/300	(0.67%)	Mean	0.67%	SD	1.03%	Total	0/250	(0%)	Mean	0%	SD 0%
.....													
#Skin:													
Hemangiosarcoma													
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD 0%
.....													
#Skin:													
Keratoacanthoma													
		2/50	(4%)	1/50	(2%)	3/50	(6%)		1/50	(2%)	0/50	(0%)	
		3/50	(6%)	6/50	(12%)	4/50	(8%)		0/50	(0%)	0/50	(0%)	0/50 (0%)
Overall Incidence	Total	19/300	(6.33%)	Mean	6.33%	SD	3.44%	Total	1/250	(0.4%)	Mean	0.4%	SD 0.89%
.....													

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

Route: ORAL

**Vehicle:** WATER

Page: 243

Report Date:10/04/2007

Male												Female					
#Skin:																	
Lipoma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			1/50	(2%)
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%			
.....																	
#Skin:																	
Liposarcoma																	
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD	0%			
.....																	
#Skin:																	
Neural Crest Tumor																	
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		1/50	(2%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)			1/50	(2%)
Overall Incidence	Total	3/300	(1%)	Mean	1%	SD	1.1%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%			
.....																	
#Skin:																	
Neurofibroma or Schwannoma benign																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%			
.....																	
#Skin:																	
Neurofibrosarcoma or Schwannoma (malignant or NOS)																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%			

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: WATER

Male										Female									
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD	0%				
#Skin: Osteosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD	0%				
#Skin: Sarcoma																			
		2/50	(4%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	4/300	(1.33%)	Mean	1.33%	SD	1.63%	Total		0/250	(0%)	Mean	0%	SD	0%				
#Skin: Schwannoma Benign																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD	0%				
#Skin: Schwannoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD	0%				

#: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 245

Report Date:10/04/2007

Male										Female					
#Skin:															
Squamous Cell Carcinoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/300	(0.67%)	Mean	0.67%	SD	1.03%	Total	0/250	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma															
		1/50	(2%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)		
		1/50	(2%)	2/50	(4%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	5/300	(1.67%)	Mean	1.67%	SD	1.51%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	
.....															
#Skin:															
Squamous Cell Papilloma															
		1/50	(2%)	3/50	(6%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		2/50	(4%)	1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	7/300	(2.33%)	Mean	2.33%	SD	2.34%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	
.....															
#Skin:															
Squamous Cell Papilloma or Papilloma															
		1/50	(2%)	3/50	(6%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		2/50	(4%)	1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	7/300	(2.33%)	Mean	2.33%	SD	2.34%	Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%	
.....															
#Skin:															
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma															
		4/50	(8%)	4/50	(8%)	3/50	(6%)			1/50	(2%)	0/50	(0%)		
		6/50	(12%)	7/50	(14%)	4/50	(8%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	28/300	(9.33%)	Mean	9.33%	SD	3.01%	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

Report Date:10/04/2007

Male										Female					
#Skin:															
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma															
		3/50	(6%)	4/50	(8%)	3/50	(6%)			1/50	(2%)	0/50	(0%)		
		5/50	(10%)	7/50	(14%)	4/50	(8%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	26/300	(8.67%)	Mean	8.67%	SD	3.01%	Total		2/250	(0.8%)	Mean	0.8%	SD	1.1%
.....															
#Skin:															
Trichoepithelioma															
		0/50	(0%)	3/50	(6%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	2/50	(4%)
Overall Incidence	Total	5/300	(1.67%)	Mean	1.67%	SD	2.34%	Total		2/250	(0.8%)	Mean	0.8%	SD	1.79%
.....															
#Skin: Sebaceous Gland:															
Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		1/250	(0.4%)	Mean	0.4%	SD	0.89%
.....															
#Skin: Sebaceous Gland:															
Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD	0%
.....															
#Skin: Sebaceous Gland:															
Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		1/250	(0.4%)	Mean	0.4%	SD	0.89%

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

**Route:** ORAL

**Vehicle:** WATER

Page: 247

Report Date:10/04/2007

Male												Female					
#Spinal Cord:																	
Astrocytoma Benign																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%			
*Spleen:																	
Fibrosarcoma																	
		0/50	(0%)	0/50	(0%)	0/48	(0%)		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/48	(0%)		0/47	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/295	(0%)	Mean	0%	SD	0%	Total	0/247	(0%)	Mean	0%	SD	0%			
*Spleen:																	
Hemangioma																	
		0/50	(0%)	0/50	(0%)	0/48	(0%)		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/48	(0%)		0/47	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/295	(0%)	Mean	0%	SD	0%	Total	0/247	(0%)	Mean	0%	SD	0%			
*Spleen:																	
Hemangiosarcoma																	
		0/50	(0%)	0/50	(0%)	1/48	(2%)		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/48	(0%)		0/47	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/295	(0.34%)	Mean	0.35%	SD	0.85%	Total	0/247	(0%)	Mean	0%	SD	0%			
*Spleen:																	
Leiomyosarcoma																	
		0/50	(0%)	0/50	(0%)	0/48	(0%)		0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	0/48	(0%)		0/47	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/295	(0%)	Mean	0%	SD	0%	Total	0/247	(0%)	Mean	0%	SD	0%			

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

**Report Date:**10/04/2007

#: Denominator is number of animals necropsied



**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

**Route:** ORAL

**Vehicle:** WATER

Page: 249

Report Date:10/04/2007

Male								Female							
#Stomach, Glandular: Leiomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%	
.....															
#Stomach, Glandular: Lipoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD	0%	
.....															
*Testes: Adenoma															
		48/50	(96%)	46/50	(92%)	45/50	(90%)								
		41/50	(82%)	49/50	(98%)	45/50	(90%)								
Overall Incidence	Total	274/300	(91.33%)	Mean	91.33%	SD	5.61%								
.....															
*Thymus: Sarcoma															
		0/48	(0%)	0/49	(0%)	0/48	(0%)			0/50	(0%)	0/50	(0%)		
		1/49	(2%)	0/43	(0%)	0/48	(0%)			0/49	(0%)	0/48	(0%)	0/49	(0%)
Overall Incidence	Total	1/285	(0.35%)	Mean	0.34%	SD	0.83%	Total	0/246	(0%)	Mean	0%	SD	0%	
.....															
*Thymus: Thymoma Benign															
		0/48	(0%)	0/49	(0%)	0/48	(0%)			0/50	(0%)	0/50	(0%)		
		1/49	(2%)	0/43	(0%)	0/48	(0%)			0/49	(0%)	0/48	(0%)	0/49	(0%)
Overall Incidence	Total	1/285	(0.35%)	Mean	0.34%	SD	0.83%	Total	0/246	(0%)	Mean	0%	SD	0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 250

Report Date:10/04/2007

Male														Female					
*Thymus:																			
Thymoma Malignant																			
		0/48	(0%)	0/49	(0%)	0/48	(0%)		0/50	(0%)	0/50	(0%)							
		0/49	(0%)	0/43	(0%)	0/48	(0%)		0/49	(0%)	0/48	(0%)	0/49	(0%)					
Overall Incidence	Total	0/285	(0%)	Mean	0%	SD	0%	Total	0/246	(0%)	Mean	0%	SD	0%					
.....																			
*Thymus:																			
Thymoma: Benign, Malignant, NOS																			
		0/48	(0%)	0/49	(0%)	0/48	(0%)		0/50	(0%)	0/50	(0%)							
		1/49	(2%)	0/43	(0%)	0/48	(0%)		0/49	(0%)	0/48	(0%)	0/49	(0%)					
Overall Incidence	Total	1/285	(0.35%)	Mean	0.34%	SD	0.83%	Total	0/246	(0%)	Mean	0%	SD	0%					
.....																			
*Thyroid Gland: C-Cell:																			
Adenoma																			
		5/50	(10%)	3/50	(6%)	8/46	(17%)		8/50	(16%)	6/49	(12%)							
		6/50	(12%)	10/49	(20%)	9/47	(19%)		6/50	(12%)	6/46	(13%)	12/47	(26%)					
Overall Incidence	Total	41/292	(14.04%)	Mean	14.16%	SD	5.71%	Total	38/242	(15.7%)	Mean	15.76%	SD	5.69%					
.....																			
*Thyroid Gland: C-Cell:																			
Carcinoma																			
		1/50	(2%)	1/50	(2%)	1/46	(2%)		2/50	(4%)	1/49	(2%)							
		1/50	(2%)	1/49	(2%)	2/47	(4%)		0/50	(0%)	0/46	(0%)	1/47	(2%)					
Overall Incidence	Total	7/292	(2.4%)	Mean	2.41%	SD	0.91%	Total	4/242	(1.65%)	Mean	1.63%	SD	1.68%					
.....																			
*Thyroid Gland: C-Cell:																			
Carcinoma or Adenoma																			
		6/50	(12%)	4/50	(8%)	9/46	(20%)		10/50	(20%)	7/49	(14%)							
		7/50	(14%)	11/49	(22%)	11/47	(23%)		6/50	(12%)	6/46	(13%)	13/47	(28%)					
Overall Incidence	Total	48/292	(16.44%)	Mean	16.57%	SD	6.18%	Total	42/242	(17.36%)	Mean	17.4%	SD	6.52%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 251

Report Date:10/04/2007

Male														Female					
*Thyroid Gland: Follicular Cell: Adenoma																			
		0/50	(0%)	2/50	(4%)	0/46	(0%)		0/50	(0%)	0/49	(0%)							
		1/50	(2%)	0/49	(0%)	1/47	(2%)		0/50	(0%)	1/46	(2%)	0/47	(0%)					
Overall Incidence	Total	4/292	(1.37%)	Mean	1.35%	SD	1.64%	Total	1/242	(0.41%)	Mean	0.43%	SD	0.97%					
.....																			
*Thyroid Gland: Follicular Cell: Carcinoma																			
		0/50	(0%)	1/50	(2%)	0/46	(0%)		0/50	(0%)	0/49	(0%)							
		0/50	(0%)	0/49	(0%)	0/47	(0%)		0/50	(0%)	0/46	(0%)	1/47	(2%)					
Overall Incidence	Total	1/292	(0.34%)	Mean	0.33%	SD	0.82%	Total	1/242	(0.41%)	Mean	0.43%	SD	0.95%					
.....																			
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma																			
		0/50	(0%)	3/50	(6%)	0/46	(0%)		0/50	(0%)	0/49	(0%)							
		1/50	(2%)	0/49	(0%)	1/47	(2%)		0/50	(0%)	1/46	(2%)	1/47	(2%)					
Overall Incidence	Total	5/292	(1.71%)	Mean	1.69%	SD	2.34%	Total	2/242	(0.83%)	Mean	0.86%	SD	1.18%					
.....																			
#Tissue NOS: Fibrosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
.....																			
#Tissue NOS: Leiomyoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD	0%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Version:** Oct2007

**Contract/Lab:** All Laboratories

**Species:** RATS

Strain: F344

**Length of Study:** CHRONIC

## Toxicology Data Management System

### Tumor Incidence for Selected Control Animal Groups

**Route:** ORAL

**Vehicle:** WATER

Page: 252

Report Date:10/04/2007

Male														Female					
#Tissue NOS: Lipoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
#Tissue NOS: Paraganglioma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD	0%					
#Tissue NOS: Sarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
#Tissue NOS: Schwannoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					
#Tongue: Liposarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)						
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total	0/250	(0%)	Mean	0%	SD	0%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: ORAL

Vehicle: WATER

Page: 253

Report Date:10/04/2007

Male										Female											
#Tongue:																					
Squamous Cell Carcinoma or Papilloma Squamous																					
		0/50	(0%)	0/50	(0%)	1/50	(2%)			1/50	(2%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)			0/50	(0%)				
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total		2/250	(0.8%)	Mean	0.8%	SD		1.1%					
.....																					
#Tongue:																					
Squamous Cell Papilloma																					
		0/50	(0%)	0/50	(0%)	1/50	(2%)			1/50	(2%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)			0/50	(0%)				
Overall Incidence	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total		2/250	(0.8%)	Mean	0.8%	SD		1.1%					
.....																					
#Tooth:																					
Odontoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)				
Overall Incidence	Total	0/300	(0%)	Mean	0%	SD	0%	Total		0/250	(0%)	Mean	0%	SD		0%					
.....																					
*Urinary Bladder:																					
Carcinoma																					
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/49	(0%)	0/50	(0%)			0/50	(0%)				
		1/50	(2%)	0/50	(0%)	0/48	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)				
Overall Incidence	Total	1/297	(0.34%)	Mean	0.33%	SD	0.82%	Total		0/249	(0%)	Mean	0%	SD		0%					
.....																					
*Urinary Bladder:																					
Carcinoma or Papilloma																					
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/49	(0%)	0/50	(0%)			0/50	(0%)				
		1/50	(2%)	0/50	(0%)	0/48	(0%)			0/50	(0%)	0/50	(0%)			0/50	(0%)				
Overall Incidence	Total	1/297	(0.34%)	Mean	0.33%	SD	0.82%	Total		0/249	(0%)	Mean	0%	SD		0%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

**Report Date:**10/04/2007

Male													Female					
*Urinary Bladder: Leiomyosarcoma																		
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/49	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/48	(0%)		0/50	(0%)	0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/297	(0%)	Mean	0%	SD	0%	Total	0/249	(0%)	Mean	0%	SD	0%				
*Urinary Bladder: Papilloma																		
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/49	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/48	(0%)		0/50	(0%)	0/50	(0%)			0/50	(0%)		
Overall Incidence	Total	0/297	(0%)	Mean	0%	SD	0%	Total	0/249	(0%)	Mean	0%	SD	0%				
#Uterus: Adenoma																		
									1/50	(2%)	0/50	(0%)						
									0/50	(0%)	0/50	(0%)			0/50	(0%)		
Overall Incidence								Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%				
#Uterus: Carcinoma																		
									0/50	(0%)	0/50	(0%)						
									0/50	(0%)	0/50	(0%)			0/50	(0%)		
Overall Incidence								Total	0/250	(0%)	Mean	0%	SD	0%				
#Uterus: Deciduoma Benign																		
									0/50	(0%)	0/50	(0%)						
									0/50	(0%)	0/50	(0%)			0/50	(0%)		
Overall Incidence								Total	0/250	(0%)	Mean	0%	SD	0%				

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: ORAL  
Vehicle: WATER

Male			Female		
#Uterus:					
Hemangioma					
		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/250	(0%)	Mean 0%	SD 0%
.....					
#Uterus:					
Hemangiosarcoma					
		0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)
Overall Incidence	Total	1/250	(0.4%)	Mean 0.4%	SD 0.89%
.....					
#Uterus:					
Leiomyoma					
		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/250	(0%)	Mean 0%	SD 0%
.....					
#Uterus:					
Polyp Stromal					
		10/50	(20%)	9/50	(18%)
		4/50	(8%)	13/50	(26%)
Overall Incidence	Total	45/250	(18%)	Mean 18%	SD 6.48%
.....					
#Uterus:					
Sarcoma Stromal					
		0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/250	(0.4%)	Mean 0.4%	SD 0.89%
.....					
*: Denominator is number of animals with tissues examined microscopically					
#: Denominator is number of animals necropsied					

**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

**Report Date:**10/04/2007

Male										Female													
#Uterus: Sarcoma Stromal or Polyp Stromal																							
										10/50	(20%)	9/50	(18%)										
										4/50	(8%)	13/50	(26%)	10/50	(20%)								
Overall Incidence										Total	46/250	(18.4%)	Mean	18.4%	SD	6.54%							
.....																							
#Uterus: Schwannoma Malignant																							
										0/50	(0%)	0/50	(0%)										
										0/50	(0%)	1/50	(2%)	0/50	(0%)								
Overall Incidence										Total	1/250	(0.4%)	Mean	0.4%	SD	0.89%							
.....																							
#Vagina: Polyp																							
										0/50	(0%)	0/50	(0%)										
										0/50	(0%)	0/50	(0%)	0/50	(0%)								
Overall Incidence										Total	0/250	(0%)	Mean	0%	SD	0%							
.....																							
#Vagina: Sarcoma																							
										0/50	(0%)	0/50	(0%)										
										0/50	(0%)	0/50	(0%)	0/50	(0%)								
Overall Incidence										Total	0/250	(0%)	Mean	0%	SD	0%							
.....																							
#Zymbal's Gland: Adenoma																							
										0/50	(0%)	0/50	(0%)	0/50	(0%)								
										1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
Overall Incidence										Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/250	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals necropsied



**Length of Study:** CHRONIC

### Tumor Incidence for Selected Control Animal Groups

**Vehicle:** WATER

**Report Date:**10/04/2007

Male														Female					
#Zymbal's Gland: Carcinoma																			
		0/50	(0%)	1/50	(2%)	1/50	(2%)		1/50	(2%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	2/300	(0.67%)	Mean	0.67%	SD	1.03%	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%					
.....																			
#Zymbal's Gland: Carcinoma or Adenoma																			
		0/50	(0%)	1/50	(2%)	1/50	(2%)		1/50	(2%)	0/50	(0%)							
		1/50	(2%)	0/50	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)					
Overall Incidence	Total	3/300	(1%)	Mean	1%	SD	1.1%	Total	2/250	(0.8%)	Mean	0.8%	SD	1.1%					

#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

**Toxicology Data Management System**

Tumor Incidence for Selected Control Animal Groups

Route: SKIN

Vehicle: ETHANOL

Page: 258

Report Date:10/04/2007

**Study Summary**

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Columbus Laboratory	059700307	07/10/02	728	50 (1)	25(680)	510.4	1,2-Dibromo-2,4-dicyanobutane
Southern Research Institute	059302007	04/24/00	729	50 (1)	20(670)	484.2	Diisopropylcarbodiimide
Female							
Battelle Columbus Laboratory	059700307	07/11/02	729	50 (1)	29(695)	337.8	1,2-Dibromo-2,4-dicyanobutane
Southern Research Institute	059302007	04/24/00	731	50 (1)	30(672)	319.5	Diisopropylcarbodiimide

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Page: 259  
Report Date:10/04/2007

Male						Female					
#All Organs: Benign Tumors											
Overall Incidence	Total	46/50	(92%)	47/50	(94%)	SD	1.41%	46/50	(92%)	44/50	(88%)
		93/100	(93%)	Mean	93%			90/100	(90%)	Mean	90%
.....											
#All Organs: Malignant Tumors											
Overall Incidence	Total	23/50	(46%)	34/50	(68%)	SD	15.56%	15/50	(30%)	22/50	(44%)
		57/100	(57%)	Mean	57%			37/100	(37%)	Mean	37%
.....											
#All Organs: Malignant and Benign Tumors											
Overall Incidence	Total	50/50	(100%)	50/50	(100%)	SD	0%	48/50	(96%)	48/50	(96%)
		100/100	(100%)	Mean	100%			96/100	(96%)	Mean	96%
.....											
#All Organs: Hemangioma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean	0%			0/100	(0%)	Mean	0%
.....											
#All Organs: Hemangiosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean	0%			0/100	(0%)	Mean	0%
.....											
#All Organs: Hemangiosarcoma or Hemangioma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD	0%	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean	0%			0/100	(0%)	Mean	0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Page: 260  
Report Date:10/04/2007

Male						Female					
#All Organs: Histiocytic Sarcoma											
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	SD 1.41%	Total	0/50	(0%)	0/50	(0%)
		1/100	(1%)	Mean 1%				0/100	(0%)	Mean 0%	SD 0%
.....											
#All Organs: Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated											
Overall Incidence	Total	17/50	(34%)	13/50	(26%)	SD 5.66%	Total	10/50	(20%)	9/50	(18%)
		30/100	(30%)	Mean 30%				19/100	(19%)	Mean 19%	SD 1.41%
.....											
#All Organs: Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type											
Overall Incidence	Total	0/50	(0%)	2/50	(4%)	SD 2.83%	Total	0/50	(0%)	0/50	(0%)
		2/100	(2%)	Mean 2%				0/100	(0%)	Mean 0%	SD 0%
.....											
#All Organs: Mesothelioma: Benign											
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	SD 1.41%	Total	0/50	(0%)	0/50	(0%)
		1/100	(1%)	Mean 1%				0/100	(0%)	Mean 0%	SD 0%
.....											
#All Organs: Mesothelioma: Benign, Malignant, NOS											
Overall Incidence	Total	1/50	(2%)	1/50	(2%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		2/100	(2%)	Mean 2%				0/100	(0%)	Mean 0%	SD 0%
.....											
#All Organs: Mesothelioma: Malignant											
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	SD 1.41%	Total	0/50	(0%)	0/50	(0%)
		1/100	(1%)	Mean 1%				0/100	(0%)	Mean 0%	SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
#All Organs: Osteoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#All Organs: Osteosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#All Organs: Osteosarcoma or Osteoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Adrenal Cortex: Adenoma												
Overall Incidence	Total	3/50 3/100	(6%) (3%)	0/50 Mean	(0%) 3%	SD 4.24%	Total	0/50 3/100	(0%) (3%)	3/50 Mean	(6%) 3%	SD 4.24%
.....												
*Adrenal Cortex: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Adrenal Medulla: Ganglioneuroma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/99	(0%) (0%)	0/49 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Page: 262  
Report Date:10/04/2007

Male						Female						
<b>*Adrenal Medulla: Hemangioma</b>												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/49	(0%)	SD 0%
		0/100	(0%)	Mean 0%				0/99	(0%)	Mean 0%		
.....												
<b>*Adrenal Medulla: Pheochromocytoma Benign</b>												
Overall Incidence	Total	5/50	(10%)	3/50	(6%)	SD 2.83%	Total	1/50	(2%)	0/49	(0%)	SD 1.41%
		8/100	(8%)	Mean 8%				1/99	(1.01%)	Mean 1%		
.....												
<b>*Adrenal Medulla: Pheochromocytoma Complex</b>												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/49	(0%)	SD 0%
		0/100	(0%)	Mean 0%				0/99	(0%)	Mean 0%		
.....												
<b>*Adrenal Medulla: Pheochromocytoma Malignant</b>												
Overall Incidence	Total	0/50	(0%)	4/50	(8%)	SD 5.66%	Total	0/50	(0%)	0/49	(0%)	SD 0%
		4/100	(4%)	Mean 4%				0/99	(0%)	Mean 0%		
.....												
<b>*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS</b>												
Overall Incidence	Total	5/50	(10%)	6/50	(12%)	SD 1.41%	Total	1/50	(2%)	0/49	(0%)	SD 1.41%
		11/100	(11%)	Mean 11%				1/99	(1.01%)	Mean 1%		
.....												
<b>#Blood Vessel: Osteosarcoma</b>												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)	SD 0%
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%		
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
#Bone: Chondrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Chondrosarcoma or Chondroma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Chordoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Osteoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Osteosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Bone: Osteosarcoma or Osteoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
*Brain: Astrocytoma Malignant												
Overall Incidence	Total	1/50	(2%)	1/50	(2%)	SD 0%	Total	0/50	(0%)	0/50	(0%)	SD 0%
		2/100	(2%)	Mean 2%				0/100	(0%)	Mean 0%		
.....												
*Brain: Ependymoma Benign												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)	SD 0%
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%		
.....												
*Brain: Glioma Malignant												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)	SD 0%
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%		
.....												
*Brain: Granular Cell Tumor Benign												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)	SD 0%
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%		
.....												
*Brain: Medulloblastoma Mal												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)	SD 0%
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%		
.....												
*Brain: Meningioma Malignant												
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)	SD 0%
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%		
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Page: 265  
Report Date:10/04/2007

Male						Female					
<b>*Brain:</b>											
<b>Meningioma: Benign, Malignant, NOS</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain:</b>											
<b>Oligodendroglioma Benign</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain:</b>											
<b>Oligodendroglioma Malignant</b>											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Brain:</b>											
<b>Oligodendroglioma, Glioma, or Astrocytoma</b>											
Overall Incidence	Total	1/50	(2%)	1/50	(2%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		2/100	(2%)	Mean 2%				0/100	(0%)	Mean 0%	SD 0%
.....											
<b>*Clitoral/Preputial Gland:</b>											
<b>Adenoma</b>											
Overall Incidence	Total	2/50	(4%)	1/50	(2%)	SD 1.41%	Total	6/50	(12%)	2/50	(4%)
		3/100	(3%)	Mean 3%				8/100	(8%)	Mean 8%	SD 5.66%
.....											
<b>*Clitoral/Preputial Gland:</b>											
<b>Carcinoma</b>											
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	SD 1.41%	Total	0/50	(0%)	2/50	(4%)
		1/100	(1%)	Mean 1%				2/100	(2%)	Mean 2%	SD 2.83%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
*Clitoral/Preputial Gland: Carcinoma or Adenoma												
Overall Incidence	Total	2/50 4/100	(4%) (4%)	2/50 Mean	(4%) 4%	SD 0%	Total	6/50 10/100	(12%) (10%)	4/50 Mean	(8%) 10%	SD 2.83%
.....												
*Clitoral/Preputial Gland: Fibrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Clitoral/Preputial Gland: Squamous Cell Papilloma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Ear: Neural Crest Tumor												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Esophagus: Fibrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Eye: Amelanotic Melanoma, Benign												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
#Eye: Melanoma Benign												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Eye: Schwannoma Malignant												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Harderian Gland: Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Harderian Gland: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Harderian Gland: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Heart: Schwannoma Benign												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Page: 268  
Report Date:10/04/2007

Male						Female					
*Heart: Schwannoma Malignant											
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	SD 1.41%	Total	0/50	(0%)	1/50	(2%)
		1/100	(1%)	Mean 1%	1/100			(1%)	Mean 1%	SD 1.41%	
.....											
#Intestine Large: Colon/Rectum: Adenoma											
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	SD 1.41%	Total	1/50	(2%)	0/50	(0%)
		1/100	(1%)	Mean 1%	1/100			(1%)	Mean 1%	SD 1.41%	
.....											
#Intestine Large: Colon/Rectum: Carcinoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma											
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	SD 1.41%	Total	1/50	(2%)	0/50	(0%)
		1/100	(1%)	Mean 1%	1/100			(1%)	Mean 1%	SD 1.41%	
.....											
#Intestine Large: Colon/Rectum: Leiomyosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											
#Intestine Small: Duodenum: Carcinoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
#Intestine Small: Duodenum: Leiomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Jejunum: Leiomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Jejunum: Leiomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Site Unspecified: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Site Unspecified: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Intestine Small: Site Unspecified: Leiomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
#Intestine Small: Site Unspecified: Leiomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Islets, Pancreatic: Adenoma												
Overall Incidence	Total	6/50 11/100	(12%) (11%)	5/50 Mean	(10%) 11%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Islets, Pancreatic: Carcinoma												
Overall Incidence	Total	0/50 2/100	(0%) (2%)	2/50 Mean	(4%) 2%	SD 2.83%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Islets, Pancreatic: Carcinoma or Adenoma												
Overall Incidence	Total	6/50 13/100	(12%) (13%)	7/50 Mean	(14%) 13%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Kidney: Pelvis and Transitional Epithelium: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male							Female						
<b>*Kidney: Pelvis and Transitional Epithelium: Papilloma</b>													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
<b>*Kidney: Renal Tubule: Adenoma</b>													
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
<b>*Kidney: Renal Tubule: Carcinoma</b>													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
<b>*Kidney: Renal Tubule: Carcinoma or Adenoma</b>													
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
<b>*Kidney: Renal Tubule: Hemangiosarcoma</b>													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
<b>*Kidney: Renal Tubule: Lipoma</b>													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male										Female					
*Kidney: Renal Tubule: Liposarcoma															
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	
.....															
*Kidney: Renal Tubule: Mesenchymal Tumor Benign															
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	
.....															
*Kidney: Renal Tubule: Nephroblastoma															
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	
.....															
*Kidney: Renal Tubule: Sarcoma															
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	
.....															
*Liver: Cholangiocarcinoma															
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	
.....															
*Liver: Cholangioma															
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male							Female						
*Liver: Hemangiosarcoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
*Liver: Hepatocellular Adenoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 6/100	(0%) (6%)	6/50 Mean	(12%) 6%	SD 8.49%	
.....													
*Liver: Hepatocellular Carcinoma													
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
*Liver: Hepatocellular Carcinoma or Hepatoblastoma													
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
*Liver: Hepatocellular Carcinoma or Hepatocellular Adenoma													
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 6/100	(0%) (6%)	6/50 Mean	(12%) 6%	SD 8.49%	
.....													
*Liver: Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma													
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 6/100	(0%) (6%)	6/50 Mean	(12%) 6%	SD 8.49%	
.....													

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male										Female					
*Lung: Alveolar/Bronchiolar Adenoma															
		1/50	(2%)	1/50	(2%)			4/50	(8%)	0/50	(0%)				
Overall Incidence	Total	2/100	(2%)	Mean	2%	SD	0%	Total	4/100	(4%)	Mean	4%	SD	5.66%	
.....															
*Lung: Alveolar/Bronchiolar Carcinoma															
		1/50	(2%)	0/50	(0%)			1/50	(2%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	1/100	(1%)	Mean	1%	SD	1.41%	
.....															
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma															
		2/50	(4%)	1/50	(2%)			4/50	(8%)	0/50	(0%)				
Overall Incidence	Total	3/100	(3%)	Mean	3%	SD	1.41%	Total	4/100	(4%)	Mean	4%	SD	5.66%	
.....															
*Lung: Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
*Lung: Sarcoma															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
*Lung: Squamous Cell Carcinoma															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
#Lymph Node, Mesenteric: Sarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Mammary Gland: Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%
.....												
#Mammary Gland: Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	2/50 6/100	(4%) (6%)	4/50 Mean	(8%) 6%	SD 2.83%
.....												
#Mammary Gland: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	3/50 7/100	(6%) (7%)	4/50 Mean	(8%) 7%	SD 1.41%
.....												
#Mammary Gland: Fibroadenoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	14/50 26/100	(28%) (26%)	12/50 Mean	(24%) 26%	SD 2.83%
.....												
#Mammary Gland: Fibroma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female					
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma											
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	SD 1.41%	Total	15/50	(30%)	12/50	(24%)
		1/100	(1%)	Mean 1%	27/100			(27%)	Mean 27%	SD 4.24%	
.....											
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma											
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	SD 1.41%	Total	17/50	(34%)	14/50	(28%)
		1/100	(1%)	Mean 1%	31/100			(31%)	Mean 31%	SD 4.24%	
.....											
#Mesentery: Fibrosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											
#Mesentery: Hemangiosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											
#Mesentery: Osteosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											
#Mesentery: Rhabdomyosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Page: 277  
Report Date:10/04/2007

Male							Female						
*Nose: Adenoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
*Nose: Chondroma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
*Nose: Sarcoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
*Nose: Squamous Cell Carcinoma													
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Papilloma Squamous or Papilloma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 2/100	(0%) (2%)	2/50 Mean	(4%) 2%	SD 2.83%	
.....													
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	
.....													

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Page: 278  
Report Date:10/04/2007

Male						Female						
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 3/100	(0%) (3%)	3/50 Mean	(6%) 3%	SD 4.24%
.....												
#Oral Mucosa: Squamous Cell Carcinoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
#Oral Mucosa: Squamous Cell Papilloma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Ovary: Granulosa Cell Tumor Benign												
Overall Incidence							Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Ovary: Granulosa Cell Tumor Malignant												
Overall Incidence							Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS												
Overall Incidence							Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male							Female						
<b>*Ovary: Granulosa-Theca Tumor Benign</b>													
Overall Incidence		Total	0/50 0/100	(0%) (0%)	3/50 Mean	(6%) 3%	SD 4.24%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....													
<b>*Pancreas: Adenoma</b>													
Overall Incidence		Total	0/50 3/100	(0%) (3%)	3/50 Mean	(6%) 3%	SD 4.24%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....													
<b>*Pancreas: Carcinoma</b>													
Overall Incidence		Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....													
<b>*Pancreas: Carcinoma or Adenoma</b>													
Overall Incidence		Total	0/50 3/100	(0%) (3%)	3/50 Mean	(6%) 3%	SD 4.24%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....													
<b>*Pancreas: Mixed Tumor Benign</b>													
Overall Incidence		Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....													
<b>*Parathyroid Gland: Adenoma</b>													
Overall Incidence		Total	0/49 0/98	(0%) (0%)	0/49 Mean	(0%) 0%	SD 0%	Total	0/46 0/91	(0%) (0%)	0/45 Mean	(0%) 0%	SD 0%
.....													

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male								Female							
#Peripheral Nerve: Schwannoma Malignant															
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	
.....															
#Peripheral Nerve: Schwannoma: Benign, Malignant, NOS															
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	
.....															
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma															
Overall Incidence	Total	32/50 61/100	(64%) (61%)	29/50 Mean	(58%) 61%	SD	4.24%	Total	35/50 68/100	(70%) (68%)	33/50 Mean	(66%) 68%	SD	2.83%	
.....															
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma															
Overall Incidence	Total	0/50 5/100	(0%) (5%)	5/50 Mean	(10%) 5%	SD	7.07%	Total	0/50 3/100	(0%) (3%)	3/50 Mean	(6%) 3%	SD	4.24%	
.....															
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma															
Overall Incidence	Total	32/50 66/100	(64%) (66%)	34/50 Mean	(68%) 66%	SD	2.83%	Total	35/50 71/100	(70%) (71%)	36/50 Mean	(72%) 71%	SD	1.41%	
.....															
*Pituitary Gland: Pars Intermedia: Adenoma															
Overall Incidence	Total	0/50 2/100	(0%) (2%)	2/50 Mean	(4%) 2%	SD	2.83%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female					
*Pituitary Gland: Pars Intermedia: Carcinoma											
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%)	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) SD 0%
.....											
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma											
Overall Incidence	Total	0/50 3/100	(0%) (3%)	3/50 Mean 3%	(6%)	SD 4.24%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) SD 0%
.....											
*Prostate: Adenoma											
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%)	SD 1.41%					
.....											
*Prostate: Carcinoma or Adenoma											
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%)	SD 1.41%					
.....											
*Salivary Glands: Sarcoma											
Overall Incidence	Total	0/50 1/99	(0%) (1.01%)	1/49 Mean 1.02%	(2%)	SD 1.44%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) SD 0%
.....											
*Salivary Glands: Schwannoma Malignant											
Overall Incidence	Total	0/50 0/99	(0%) (0%)	0/49 Mean 0%	(0%)	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
#Skeletal Muscle: Fibrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skeletal Muscle: Hemangioma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skeletal Muscle: Hemangiosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skeletal Muscle: Lipoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skeletal Muscle: Rhabdomyosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%
.....												
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male							Female							
#Skeletal Muscle: Sarcoma														
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD	1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Basal Cell Adenoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Basal Cell Adenoma or Basosquamous Tumor Benign														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Basal Cell Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
#Skin: Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007

Contract/Lab: All Laboratories

Species: RATS

Strain: F344

Length of Study: CHRONIC

## Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: SKIN

Vehicle: ETHANOL

Page: 284

Report Date:10/04/2007

Male							Female							
#Skin: Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma														
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%
.....														
#Skin: Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma														
		2/50	(4%)	4/50	(8%)			1/50	(2%)	1/50	(2%)			
Overall Incidence	Total	6/100	(6%)	Mean	6%	SD	2.83%	Total	2/100	(2%)	Mean	2%	SD	0%
.....														
#Skin: Fibroma														
		7/50	(14%)	5/50	(10%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	12/100	(12%)	Mean	12%	SD	2.83%	Total	0/100	(0%)	Mean	0%	SD	0%
.....														
#Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma														
		8/50	(16%)	5/50	(10%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	13/100	(13%)	Mean	13%	SD	4.24%	Total	0/100	(0%)	Mean	0%	SD	0%
.....														
#Skin: Fibrosarcoma														
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%
.....														
#Skin: Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma														
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)			
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female					
#Skin: Fibrous Histiocytoma											
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	SD 1.41%	Total	0/50	(0%)	0/50	(0%)
		1/100	(1%)	Mean 1%				0/100	(0%)	Mean 0%	SD 0%
.....											
#Skin: Hemangioma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
#Skin: Hemangiosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											
#Skin: Keratoacanthoma											
Overall Incidence	Total	2/50	(4%)	3/50	(6%)	SD 1.41%	Total	0/50	(0%)	1/50	(2%)
		5/100	(5%)	Mean 5%				1/100	(1%)	Mean 1%	SD 1.41%
.....											
#Skin: Lipoma											
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	SD 1.41%	Total	0/50	(0%)	0/50	(0%)
		1/100	(1%)	Mean 1%				0/100	(0%)	Mean 0%	SD 0%
.....											
#Skin: Liposarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%				0/100	(0%)	Mean 0%	SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male										Female					
#Skin: Neural Crest Tumor															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Neurofibroma or Schwannoma benign															
		1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/100	(1%)	Mean	1%	SD	1.41%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Neurofibrosarcoma or Schwannoma (malignant or NOS)															
		1/50	(2%)	2/50	(4%)			0/50	(0%)	2/50	(4%)				
Overall Incidence	Total	3/100	(3%)	Mean	3%	SD	1.41%	Total	2/100	(2%)	Mean	2%	SD	2.83%	
.....															
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)															
		2/50	(4%)	2/50	(4%)			0/50	(0%)	2/50	(4%)				
Overall Incidence	Total	4/100	(4%)	Mean	4%	SD	0%	Total	2/100	(2%)	Mean	2%	SD	2.83%	
.....															
#Skin: Osteosarcoma															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sarcoma															
		0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/100	(0%)	Mean	0%	SD	0%	Total	0/100	(0%)	Mean	0%	SD	0%	
.....															

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male							Female						
#Skin: Schwannoma Benign													
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Skin: Schwannoma Malignant													
Overall Incidence	Total	1/50 3/100	(2%) (3%)	2/50 Mean	(4%) 3%	SD 1.41%	Total	0/50 2/100	(0%) (2%)	2/50 Mean	(4%) 2%	SD 2.83%	
.....													
#Skin: Squamous Cell Carcinoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	
.....													
#Skin: Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma													
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD 1.41%	
.....													
#Skin: Squamous Cell Papilloma													
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													
#Skin: Squamous Cell Papilloma or Papilloma													
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	
.....													

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
#Skin: Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma												
Overall Incidence	Total	2/50 6/100	(4%) (6%)	4/50 Mean	(8%) 6%	SD 2.83%	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD 0%
.....												
#Skin: Squamous Cell Papilloma, Papilloma, or Keratoacanthoma												
Overall Incidence	Total	2/50 6/100	(4%) (6%)	4/50 Mean	(8%) 6%	SD 2.83%	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%
.....												
#Skin: Trichoepithelioma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skin: Sebaceous Gland: Adenoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skin: Sebaceous Gland: Carcinoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Skin: Sebaceous Gland: Carcinoma or Adenoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean	(2%) 1%	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female					
#Spinal Cord: Astrocytoma Benign											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											
*Spleen: Fibrosarcoma											
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	SD 1.41%	Total	0/50	(0%)	0/50	(0%)
		1/100	(1%)	Mean 1%	0/100			(0%)	Mean 0%	SD 0%	
.....											
*Spleen: Hemangioma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											
*Spleen: Hemangiosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											
*Spleen: Leiomyosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											
#Stomach, Forestomach: Leiomyosarcoma											
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	SD 0%	Total	0/50	(0%)	0/50	(0%)
		0/100	(0%)	Mean 0%	0/100			(0%)	Mean 0%	SD 0%	
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female								
#Stomach, Forestomach: Schwannoma Malignant														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Stomach, Forestomach: Squamous Cell Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Stomach, Forestomach: Squamous Cell Papilloma														
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean	(2%) 2%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Stomach, Glandular: Leiomyosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Stomach, Glandular: Lipoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
*Testes: Adenoma												
Overall Incidence	Total	37/50	(74%)	36/50	(72%)	SD	1.41%					
		73/100	(73%)	Mean	73%							
.....												
*Thymus: Sarcoma												
Overall Incidence	Total	0/49	(0%)	0/49	(0%)	SD	0%	Total	0/45	(0%)	0/50	(0%)
		0/98	(0%)	Mean	0%				0/95	(0%)	Mean	0%
.....												
*Thymus: Thymoma Benign												
Overall Incidence	Total	0/49	(0%)	0/49	(0%)	SD	0%	Total	0/45	(0%)	0/50	(0%)
		0/98	(0%)	Mean	0%				0/95	(0%)	Mean	0%
.....												
*Thymus: Thymoma Malignant												
Overall Incidence	Total	0/49	(0%)	0/49	(0%)	SD	0%	Total	0/45	(0%)	0/50	(0%)
		0/98	(0%)	Mean	0%				0/95	(0%)	Mean	0%
.....												
*Thymus: Thymoma: Benign, Malignant, NOS												
Overall Incidence	Total	0/49	(0%)	0/49	(0%)	SD	0%	Total	0/45	(0%)	0/50	(0%)
		0/98	(0%)	Mean	0%				0/95	(0%)	Mean	0%
.....												
*Thyroid Gland: C-Cell: Adenoma												
Overall Incidence	Total	10/50	(20%)	5/50	(10%)	SD	7.07%	Total	8/50	(16%)	3/50	(6%)
		15/100	(15%)	Mean	15%				11/100	(11%)	Mean	11%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
*Thyroid Gland: C-Cell: Carcinoma												
Overall Incidence	Total	2/50 7/100	(4%) (7%)	5/50 Mean 7%	(10%)	SD 4.24%	Total	0/50 2/100	(0%) (2%)	2/50 Mean 2%	(4%)	SD 2.83%
.....												
*Thyroid Gland: C-Cell: Carcinoma or Adenoma												
Overall Incidence	Total	12/50 22/100	(24%) (22%)	10/50 Mean 22%	(20%)	SD 2.83%	Total	8/50 13/100	(16%) (13%)	5/50 Mean 13%	(10%)	SD 4.24%
.....												
*Thyroid Gland: Follicular Cell: Adenoma												
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%)	SD 1.41%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%
.....												
*Thyroid Gland: Follicular Cell: Carcinoma												
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean 1%	(0%)	SD 1.41%	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%)	SD 1.41%
.....												
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma												
Overall Incidence	Total	1/50 2/100	(2%) (2%)	1/50 Mean 2%	(2%)	SD 0%	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%)	SD 1.41%
.....												
#Tissue NOS: Fibrosarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%)	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female						
#Tissue NOS: Leiomyoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Tissue NOS: Lipoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Tissue NOS: Paraganglioma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Tissue NOS: Sarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Tissue NOS: Schwannoma Malignant												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												
#Tongue: Liposarcoma												
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....												

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female								
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 2/100	(0%) (2%)	2/50 Mean	(4%) 2%	SD	2.83%
.....														
#Tongue: Squamous Cell Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 2/100	(0%) (2%)	2/50 Mean	(4%) 2%	SD	2.83%
.....														
#Tooth: Odontoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	1/50 1/100	(2%) (1%)	0/50 Mean	(0%) 1%	SD	1.41%
.....														
*Urinary Bladder: Carcinoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Urinary Bladder: Carcinoma or Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
*Urinary Bladder: Leiomyosarcoma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male							Female							
*Urinary Bladder: Papilloma														
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%	Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Uterus: Adenoma														
Overall Incidence								Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Uterus: Carcinoma														
Overall Incidence								Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Uterus: Deciduoma Benign														
Overall Incidence								Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Uterus: Hemangioma														
Overall Incidence								Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														
#Uterus: Hemangiosarcoma														
Overall Incidence								Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD	0%
.....														

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Page: 296  
Report Date:10/04/2007

Male			Female		
#Uterus: Leiomyoma					
Overall Incidence	Total	0/50 1/100	(0%) (1%)	1/50 Mean 1%	(2%) SD 1.41%
.....					
#Uterus: Polyp Stromal					
Overall Incidence	Total	2/50 12/100	(4%) (12%)	10/50 Mean 12%	(20%) SD 11.31%
.....					
#Uterus: Sarcoma Stromal					
Overall Incidence	Total	1/50 1/100	(2%) (1%)	0/50 Mean 1%	(0%) SD 1.41%
.....					
#Uterus: Sarcoma Stromal or Polyp Stromal					
Overall Incidence	Total	3/50 13/100	(6%) (13%)	10/50 Mean 13%	(20%) SD 9.9%
.....					
#Uterus: Schwannoma Malignant					
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) SD 0%
.....					
#Vagina: Polyp					
Overall Incidence	Total	0/50 0/100	(0%) (0%)	0/50 Mean 0%	(0%) SD 0%
.....					

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied



Version: Oct2007  
Contract/Lab: All Laboratories  
Species: RATS  
Strain: F344  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: SKIN  
Vehicle: ETHANOL

Male						Female					
#Vagina: Sarcoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
#Zymbal's Gland: Adenoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
#Zymbal's Gland: Carcinoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											
#Zymbal's Gland: Carcinoma or Adenoma											
Overall Incidence						Total	0/50 0/100	(0%) (0%)	0/50 Mean	(0%) 0%	SD 0%
.....											

\*: Denominator is number of animals with tissues examined microscopically  
#: Denominator is number of animals necropsied